

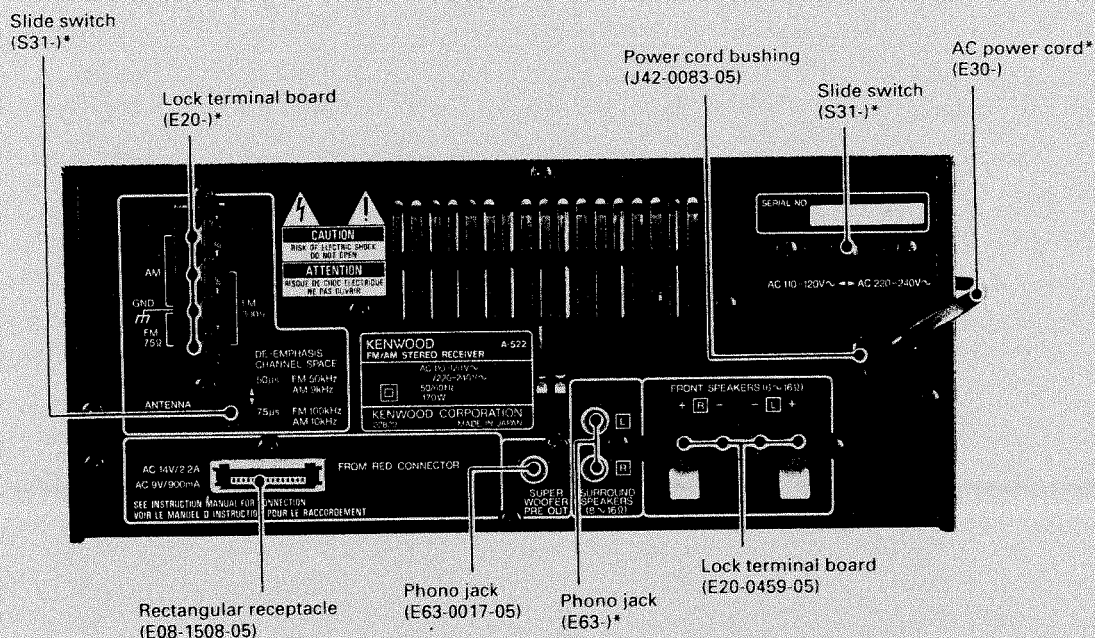
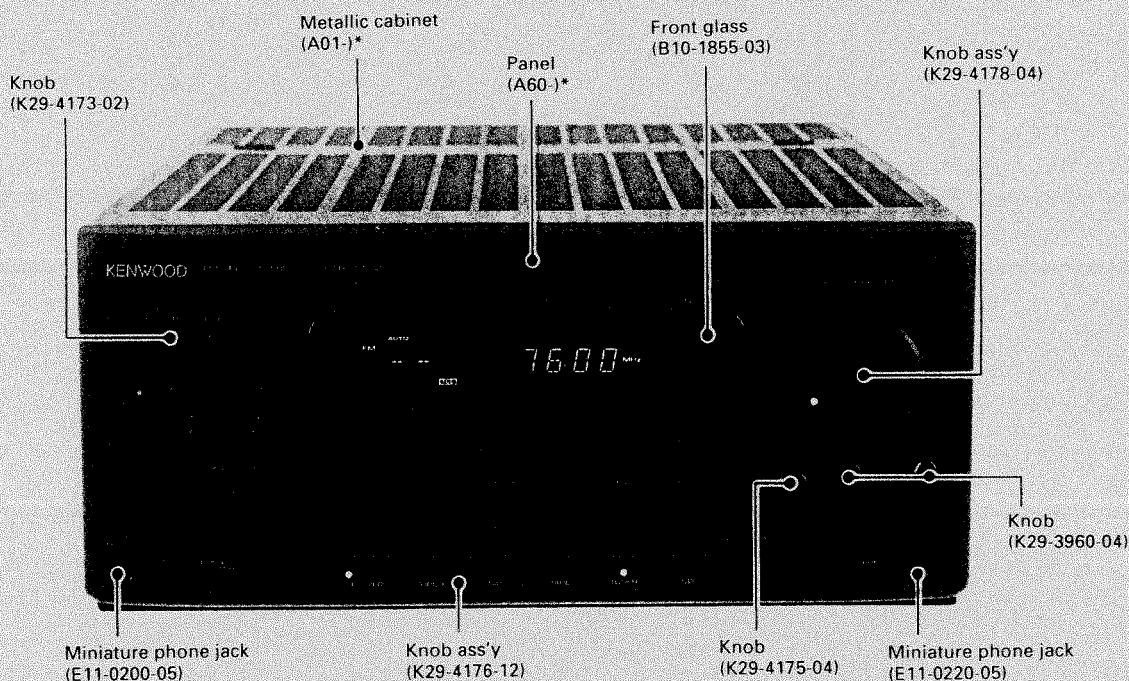
A-522/522L

SERVICE MANUAL

(COMPACT HIFI SYSTEM
UD COMPONENT SYSTEM)

UD-70)

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B51-4380-00(J)3890



* Refer to parts list on page 33.
Photo is A-522

[A-522 : K, P, Y, M, X type]
[A-522L : T, E, L type]

Refer to the SERVICING NOTES on page 2 before repair.

CONTENTS/SERVICING NOTES

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SERVICING NOTES

① This unit does not contain a selector IC. Since each speaker relay of this unit is operated according to the data that is serially transmitted from the graphic equalizer (GE-522), the receiver cannot output sound alone. To output a signal to each speaker terminal, follow the following procedures.

Procedure 1)
Direct the tuner output to the main amplifier input. Connect the test pin on the right (lower right of the tuner board) of the main amplifier board (X09, A/7). (Fig. 1)

Front amplifier Pins 12 and 10 (Left channel)
 Pins 13 and 11 (Right channel)

Procedure 2)
Enter the test mode. (Hold down the CHARACTER key, and insert the AC plug into the outlet.)
1) Press the DAT key or DBS/LD key. (Only the front speaker outputs sound.)
2) Press the VIDEO key. (The surround mode is entered, and the front and surround speakers outputs sound.)

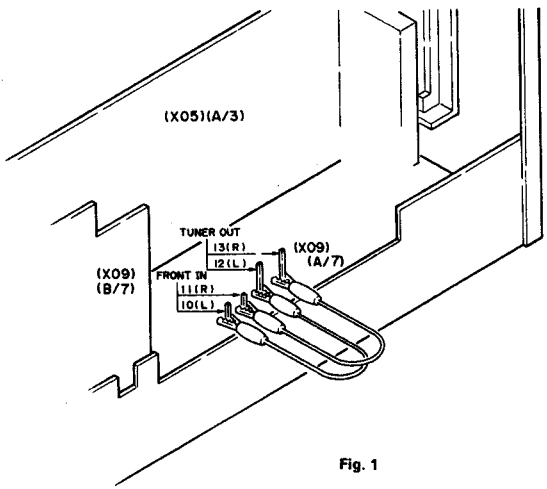
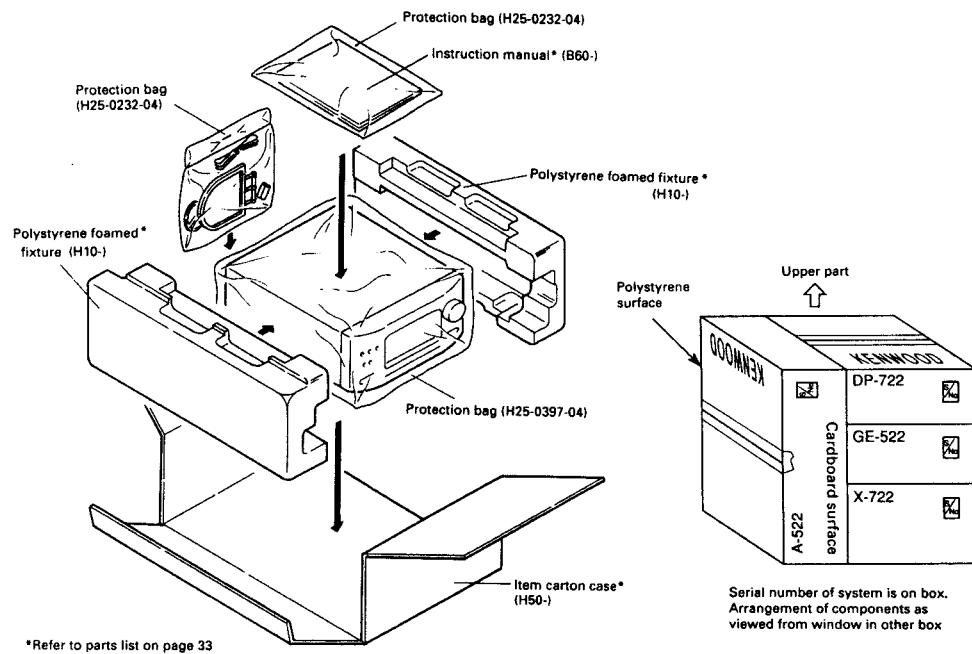


Fig. 1

PACKING/ACCESSORIES

The A-522/522L is supplied with all the accessories, except the remote controller (X94-1000-21) for the GE-522.



The sleeve method is K, P, Y, M types, and E, X, T, L types are corrugated fiberboard boxes.

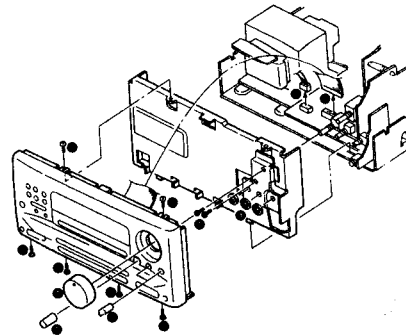
Accessories

| | | |
|---|--|--|
| • AM (MW, LW) loop antenna 1 (T90-0173-05): Japan made (T90-0174-05): Singapore and France made | • FM indoor antenna 1 (T90-0176-05): Japan made (T90-0175-05): Singapore and France made | • Batteries 2 |
| • Loop antenna stand 1 (J19-2815-04) | • Antenna adaptor (75 Ω/300 Ω) .. 1 (A-522L only) (T90-0136-05) | • AC plug adaptor 1 (M type only) (E03-0115-05) |

DISASSEMBLY FOR REPAIR

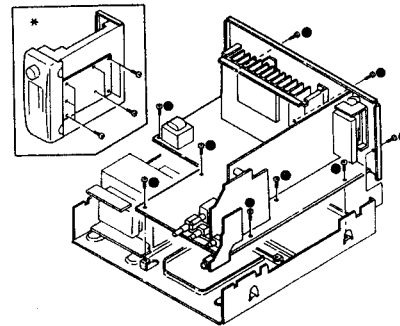
Removing the front panel and sub panel

1. Remove the four knobs.
 2. Remove the six screws.
- Disconnect the two connectors, then remove the front panel.
3. Remove the two screws and three nuts, then remove the sub panel.



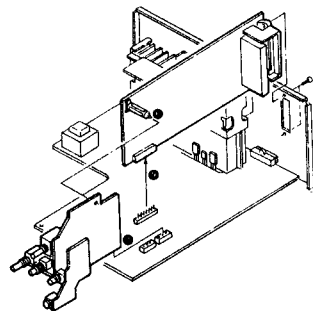
Removing the main PC board (X09: A/7)

4. Remove the nine screws, then remove the main PC board (X09: A/7).
- * To adjust the main PC board, cover, as shown in the figure.



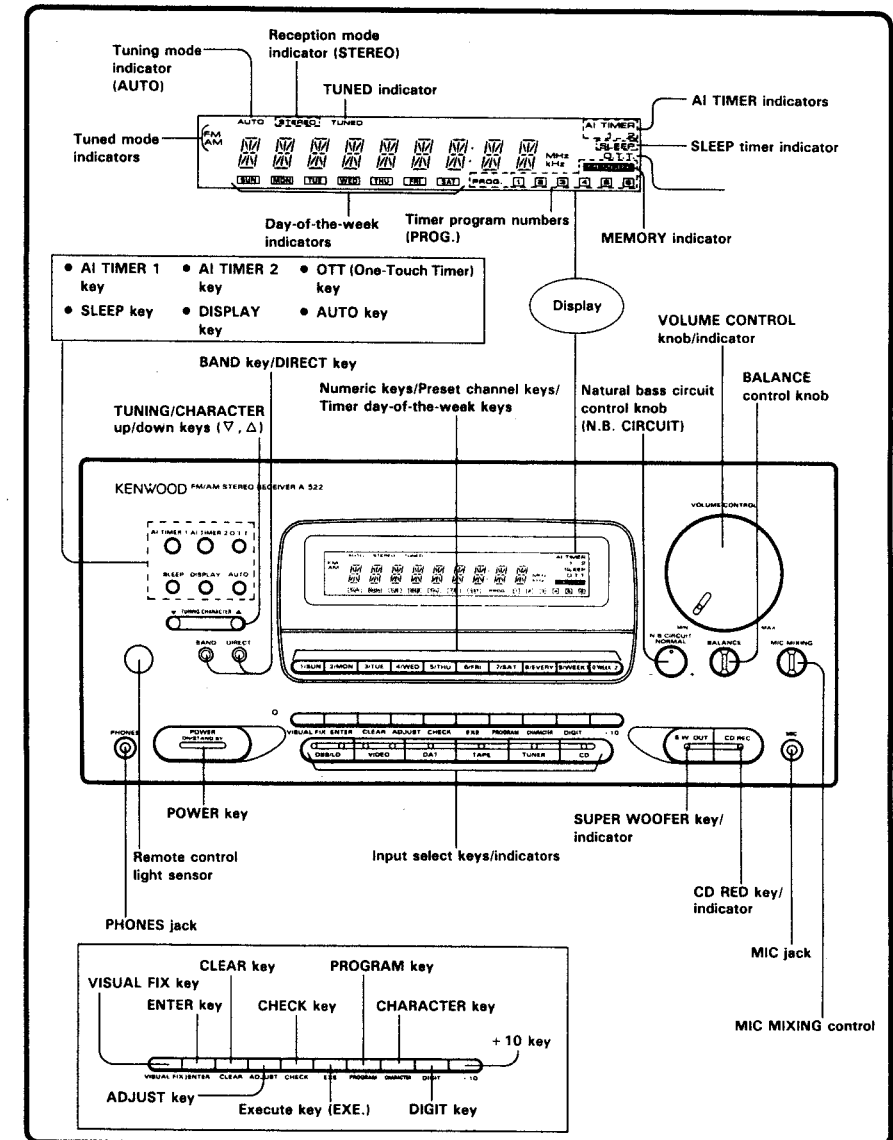
Removing the tuner PC board (X05: A/3) and the volume PC boards (X09: B/7, C/7, D/7)

5. Remove the unit holder 6.
6. Disconnect the volume PC boards (X09: B/7, C/7, D/7) from connector.
7. Remove the two screws.
8. Disconnect the tuner PC board (X05: A/3) from connector.

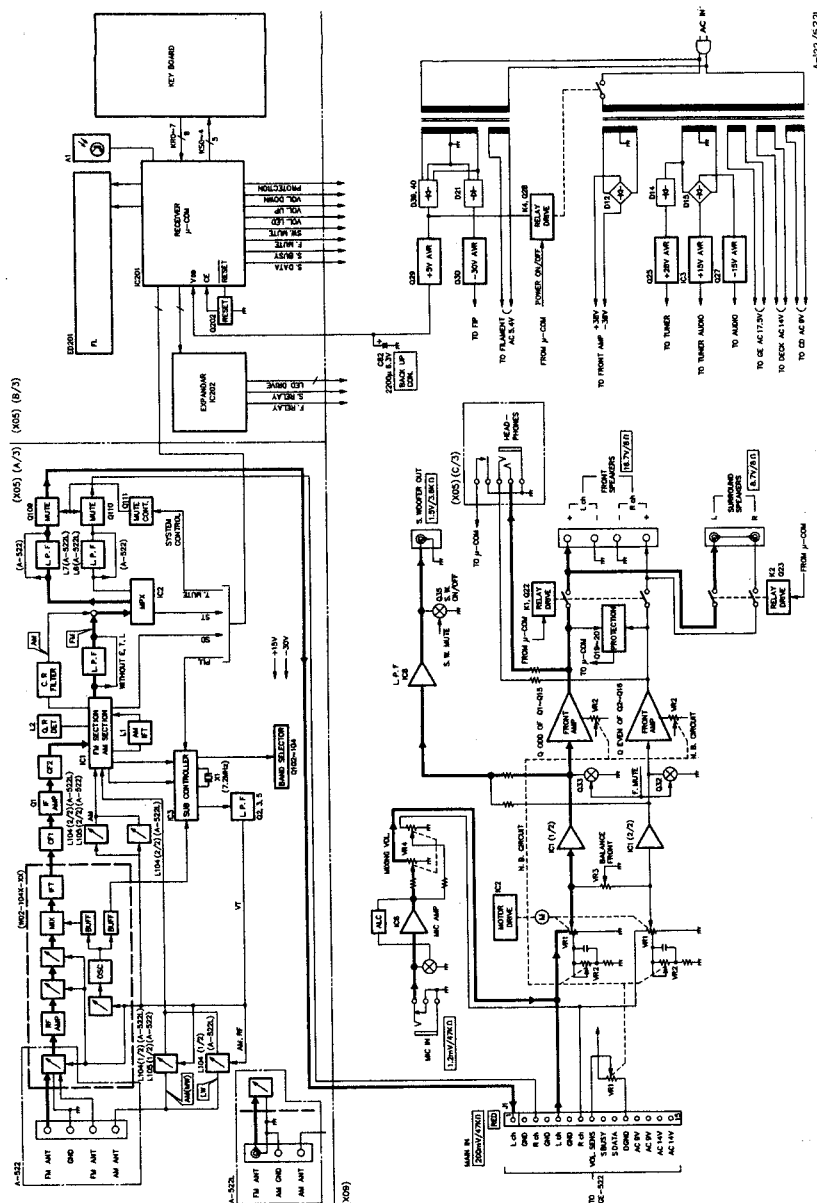


Controls and indicators

Receiver

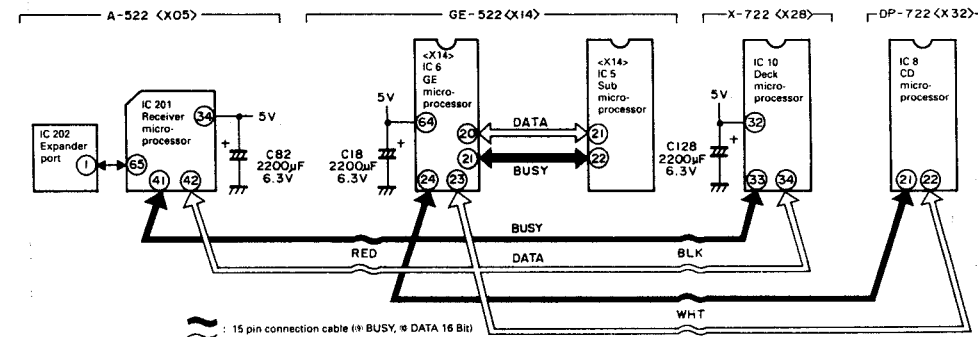


BLOCK DIAGRAM



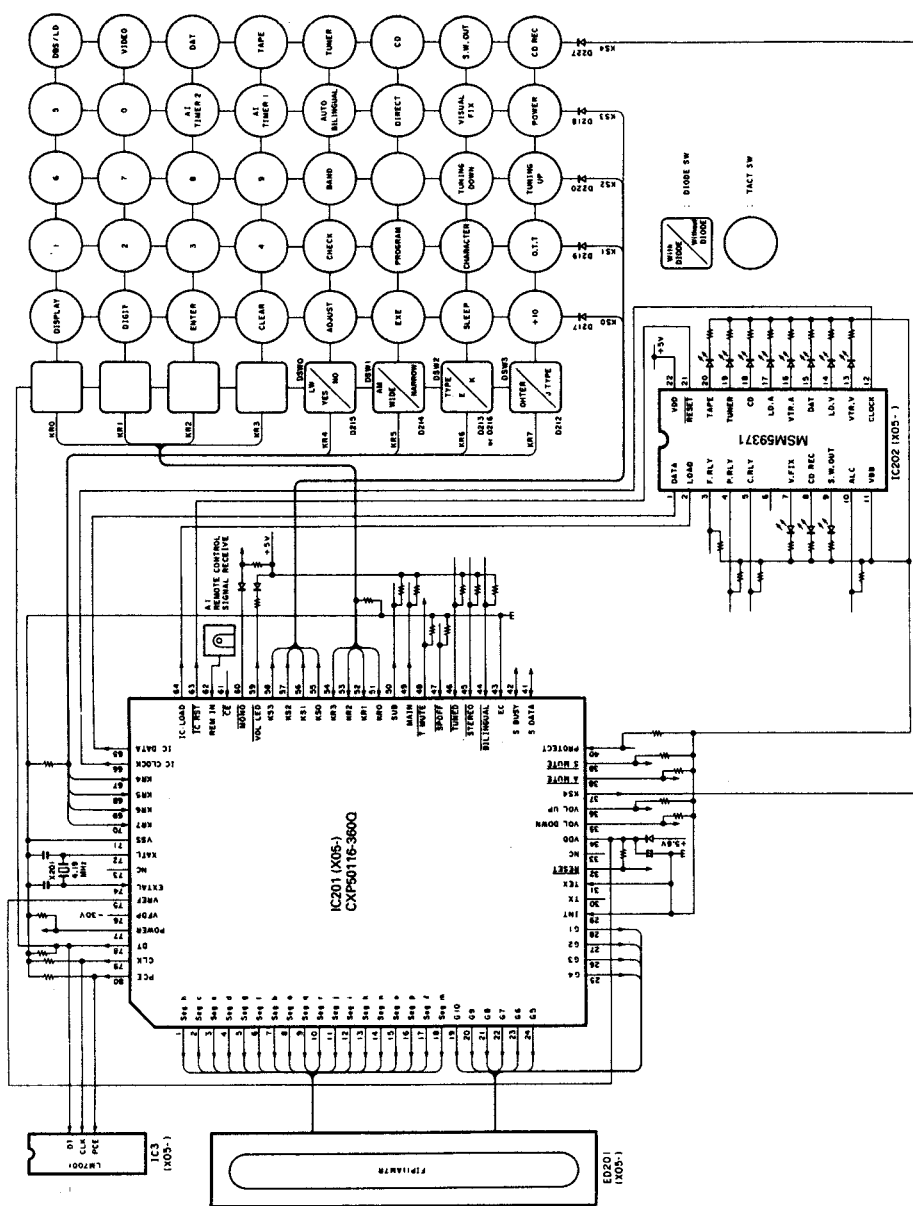
CIRCUIT DESCRIPTION

Microprocessor and back-up condenser of this unit (16-bit serial transmission is supported unlike the UD-7/9 series (8 bits).)



CIRCUIT DESCRIPTION

Block diagram of surrounding microprocessor



CIRCUIT DESCRIPTION

Function initial setting

(1) Tuner section

| | |
|----------------------|---|
| POWER | OFF |
| BAND | FM |
| Last frequency | Lower most limit of each band |
| Last preset | "- -" display |
| Preset memory | Test frequency of each memory |
| AUTO/MONO | AUTO |
| BILINGUAL | BOTH MODE |
| Display mode | POWER ON ... Frequency display POWER OFF ... Clock display |

(2) Clock, calendar, and timer section

Calendar January 1, 1991
Clock 0:00 Power failure mode
Programmable timer Day of week : TUE
ON : 0:00
OFF : 0:00
MODE : PLAY
SOURCE : TUNER
SET ch : 01 ch
Execution mode : OFF

Sleep timer OFF
One touch timer OFF

(3) Amplifier section

Selector Audio system : TUNER
Video system : LD
V-FIX OFF
CDREC OFF
SUPER WOOFER OFF

Setting of initial conditions (reset)

(1) Method

While pressing ENTER key, turn the AC ON.

(2) Contents

Clears all the memory and returns to the initial conditions. However, the test frequency is newly memorized in the preset memory at this time. (The same as when the back-up data is NG.)

Conditions by destination

| Destination type | | Destination switches (DSW) | | | | Band | Receiving frequency range | Inter-channel space | Intermediate frequency | PLL reference frequency |
|------------------|---------|----------------------------|--------|----|----|------|--------------------------------|---------------------|------------------------|-------------------------|
| | | B3 | B2 | B1 | B0 | | | | | |
| A-522 | M, Y | 1 | 1 or 0 | 0 | 0 | FM | 87.5 ~ 108.0 MHz | 50 kHz /100 kHz | +10.7 MHz | 50 kHz (25 kHz) |
| | | | | | | AM | 531 ~ 1602 kHz /530 ~ 1610 kHz | 9 kHz /10 kHz | +450 kHz | 10 kHz |
| | K, P | 1 | 0 | 0 | 0 | FM | 87.5 ~ 108.0 MHz | 100 kHz | +10.7 MHz | 50 kHz (25 kHz) |
| | | | | | | AM | 530 ~ 1610 kHz | 10 kHz | +450 kHz | 10 kHz |
| | X | 1 | 1 | 0 | 0 | FM | 87.5 ~ 108.0 MHz | 50 kHz | +10.7 MHz | 50 kHz (25 kHz) |
| | | | | | | AM | 531 ~ 1602 kHz | 9 kHz | +450 kHz | 9 kHz |
| A-521L | T, E, L | 1 | 1 | 0 | 1 | FM | 87.5 ~ 108.0 MHz | 50 kHz | +10.7 MHz | 50 kHz (25 kHz) |
| | | | | | | MW | 531 ~ 1602 kHz | 9 kHz | +450 kHz | 9 kHz |
| | | | | | | LM | 153 ~ 281 kHz | 1 kHz | +450 kHz | 1 kHz |

Test mode

(1) Setting method

While pressing CHARACTER key, turn the AC on.

(2) **Clearing method**

AC off.

(3) Contents

- All fluorescent lamps and LEDs light.
- Speaker relay ON/OFF. (The front and surround speakers output sounds)
- Receive the minimum FM value.

The test is performed with the following keys.

- 1) Preset channel calling

Normally, the +10 key changes the high-order digits 1-, 2-, and 0- alternately, but it changes the high-order digits 1- and 0- alternately in the test mode. The 0 key does not call any channel, but in the test mode, if the high-order digit is 0, 10 ch is called, and if it is 1, 20 ch is called. Table 1 lists the channels to be called.

Table 1

| High order | Low order | TEN KEY | | | | | | | | | |
|------------|-----------|---------|----|----|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

2) Motor volume test

If the DIGIT key is pressed, the volume keeps increasing for 16 seconds, and then keeps decreasing for 16 seconds. To stop the test in the middle, switch the power off.

3) O.T.T key test (one-touch-timer)

Normally, the O.T.T key is not accepted if the clock is not functioning. Only in the test mode, it is indicated that the key is accepted, but it does not cause any operation. When the key is pressed the first time, ON 0:30 O.T.T appears on the fluorescent display, and after five seconds, only O.T.T is displayed. When the key is pressed the second time, O.T.T disappears, and the original state before the key is pressed returns.

CIRCUIT DESCRIPTION

Microprocessor: CXP50116-360Q (X05: IC201)

Pin functions

| Pin No. | Pin name | I/O | Name | Description |
|---------|---|-----|--------------|---|
| 1 ~ 18 | S4 ~ S21/PG0 ~ PG3 PK0 ~ PK3, PJO ~ PJ3 T15 ~ T10 | O | Segment | Segment (h, c, e, d, g, f, b, a, q, r, j, i, k, n, o, p, l, m) |
| 19 ~ 28 | S22, S23/T9, T8 T7 ~ T0 | O | G10 ~ G1 | Grid 10 ~ 1 |
| 29 ~ 31 | INT, TX, TEX | | INT, TX, TEX | No used. |
| 32 | RST | I | RESET | Reset pin Low: RESET High: NORMAL |
| 33 | NC | | NC | No used. |
| 34 | Vdd | | Vdd | +5 V power supply |
| 35 | PI0 | O | VOLD | Motor volume down Low: STOP High: ACTIVE |
| 36 | PI1 | O | VOLU | Motor volume up Low: STOP High: ACTIVE |
| 37 | PI2 | O | KS4 | Key scan signal output (KS4) |
| 38 | PI3 | O | AMUTE | Amplifier mute Low: ON High: OFF |
| 39 | PB0 | O | SMUTE | Super woofer mute Low: ON High: OFF |
| 40 | PB1 | I | PROTECT | Protection detection Low: OFF High: ON |
| 41 | PB2 | I/O | SDATA | Serial communication DATA |
| 42 | PB3 | I/O | SBUSY | Serial communication BUSY |
| 43 | EC | | EC | No used. |
| 44 | PX0 | I | BILINGUAL | TV bilingual signal detection Low: BILINGUAL High: NORMAL |
| 45 | PX1 | I | STEREO | Stereo signal detection Low: STEREO High: MONAURAL |
| 46 | PX2 | I | TUNED | SD signal detection Low: TUNED High: OFF |
| 47 | PA0 | I | SPOFF | Head phone use detection Low: Use High: No use |
| 48 | PA1 | O | TMUTE | Tuner mute Low: OFF High: ON |
| 49 | PA2 | O | MAIN | TV main selection signal output |
| 50 | PA3 | O | SUB | TV sub selection signal output |
| 51 ~ 54 | PF0 ~ PF3 | I | KR0 ~ KR3 | Key return signal input (KR0 ~ KR3) |
| 55 ~ 58 | PE0 ~ PE3 | O | KS0 ~ KS3 | Key scan signal output (KS0 ~ KS3) |
| 59 | PY0 | O | VOLLED | Volume LED drive Low: ON High: OFF |
| 60 | PY1 | O | MONO | Forced monaural output Low: ON High: OFF |
| 61 | PY2 | I | CE | Chip enable signal input Low: OFF High: ON |
| 62 | PY3 | I | REMIN | Remote control signal input |
| 63 | PD0 | O | ICRST | Expansion port IC (MSM59371RS) RESET |
| 64 | PD1 | O | ICLOAD | Expansion port IC (MSM59371RS) STROBE |
| 65 | PD2 | O | ICDATA | Expansion port IC (MSM59371RS) DATA |
| 66 | PD3 | O | ICCLOCK | Expansion port IC (MSM59371RS) CLOCK |
| 67 ~ 70 | PC0 ~ PC3 | I | KR4 ~ KR7 | Key return signal input (KR4 ~ KR7) |
| 71 | Vss | | Vss | GND |
| 72 | XTAL | | XTAL | Crystal oscillator input (4.19 MHz) |
| 73 | NC | | NC | No used. |
| 74 | EXTAL | | EXTAL | Crystal oscillator input (4.19 MHz) |
| 75 | Vref | | Vref | No used. |
| 76 | Vfdp | | Vfdp | -30 V power supply. |
| 77 | S0/PH0 | O | POWER | Power ON/OFF signal output Low: OFF High: ON |
| 78 | S1/PH1 | O | DT | PLL IC (LM7001) DATA |
| 79 | S2/PH2 | O | CLK | PLL IC (LM7001) CLOCK |
| 80 | S3/PH3 | O | PCE | PLL IC (LM7001) STROBE |

CIRCUIT DESCRIPTION

Test frequency

| CH\TYPE | A-522 | | | | | | A-522L | |
|---------|-------|----------|-----|----------|-------|----------|--------|----------|
| | Y.M | | K.P | | Y.M.X | | T.E.L | |
| 1 | FM | 98.0MHz | FM | 98.0MHz | FM | 98.0MHz | FM | 98.0MHz |
| 2 | FM | 108.0MHz | FM | 108.0MHz | FM | 108.0MHz | FM | 108.0MHz |
| 3 | AM | 630KHz | AM | 630KHz | AM | 630KHz | AM | 630KHz |
| 4 | AM | 990KHz | AM | 990KHz | AM | 990KHz | AM | 990KHz |
| 5 | AM | 1440KHz | AM | 1440KHz | AM | 1440KHz | AM | 1440KHz |
| 6 | AM | 1610KHz | AM | 1610KHz | AM | 1602KHz | AM | 1602KHz |
| 7 | FM | 87.5MHz | AM | 1700KHz | FM | 87.5MHz | LW | 162KHz |
| 8 | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz | LW | 216KHz |
| 9 | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz | LW | 270KHz |
| 10 | FM | 89.1MHz | FM | 89.1MHz | FM | 89.1MHz | FM | 89.1MHz |
| 11 | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz | LW | 280KHz |
| 12 | FM | 90.0MHz | FM | 90.0MHz | FM | 90.0MHz | FM | 90.0MHz |
| 13 | FM | 106.0MHz | FM | 106.0MHz | FM | 106.0MHz | FM | 106.0MHz |
| 14 | AM | 530KHz | AM | 530KHz | AM | 531KHz | AM | 531KHz |
| 15 | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz | LW | 153KHz |
| 16~20 | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz | FM | 87.5MHz |

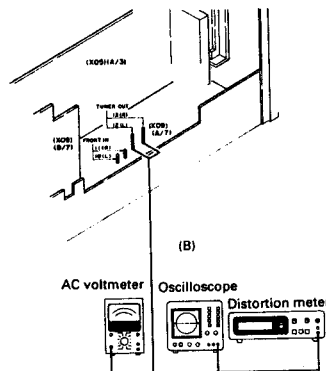
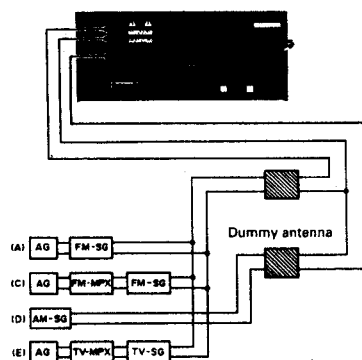
Expansion port IC: MSM59371 (X05: IC202)

Pin functions

| Pin No. | Pin name | I/O | Name | Description |
|---------|----------|-----|---------|---|
| 1 | DATA | I | ICDATA | DATA input |
| 2 | LOAD | I | ICLOAD | Strobe input |
| 3 | 016 | O | F.RLY | Front speaker relay Low: OFF High: ON |
| 4 | 015 | O | P.RLY | Presence speaker relay Low: OFF High: ON |
| 5 | 014 | O | C.RLY | Center and surround speaker relay Low: OFF High: ON |
| 6 | 013 | O | | No used. |
| 7 | 012 | O | VFIX | V-FIX LED drive Low: OFF High: ON |
| 8 | 011 | O | CDREC | CD REC LED drive Low: OFF High: ON |
| 9 | 010 | O | S.W.OUT | SUPER WOOFER LED drive Low: OFF High: ON |
| 10 | 09 | O | ALC | ALC signal output Low: OFF High: ON |
| 11 | Vbb | | Vbb | GND |
| 12 | CLOCK | I | ICCLOCK | Clock input |
| 13 | 08 | O | VTR.V | Selector VIDEO (V) LED drive Low: OFF High: ON |
| 14 | 07 | O | LD.V | Selector LD (V) LED drive Low: OFF High: ON |
| 15 | 06 | O | DAT | Selector DAT LED drive Low: OFF High: ON |
| 16 | 05 | O | VTR.A | Selector VIDEO (A) LED drive Low: OFF High: ON |
| 17 | 04 | O | LD.A | Selector LD (A) LED drive Low: OFF High: ON |
| 18 | 03 | O | CD | Selector CD LED drive Low: OFF High: ON |
| 19 | 02 | O | TUNER | Selector TUNER LED drive Low: OFF High: ON |
| 20 | 01 | O | TAPE | Selector TAPE LED drive Low: OFF High: ON |
| 21 | RESET | I | ICRST | Reset signal input |
| 22 | Vdd | | Vdd | +5 V power supply |

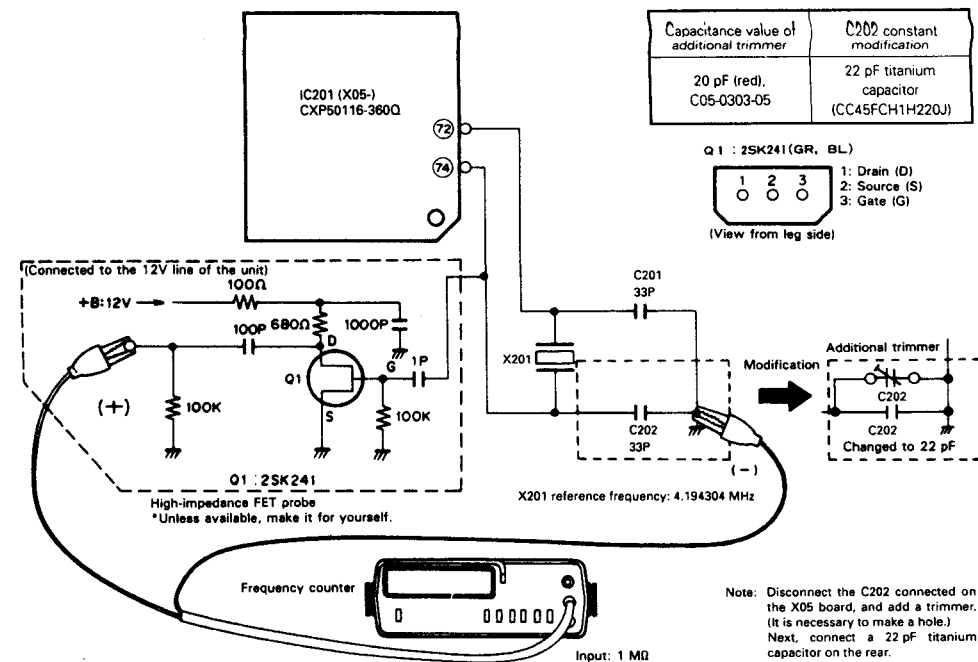
ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----------------|------------------------------|--|--|-------------------------|------------------|---|------|
| FM SECTION | | SELECTOR: FM | | | | | |
| 1 | DISCRIMINATOR | (A) 98.0MHz 1kHz, ±75kHz dev (K.P.M.V.X type) 1kHz, ±40kHz dev (E.T.L.M.Y type) 60dBu (ANT input) | Connect a DC voltmeter between TP3 and TP4. (X05-) | AUTO or MONO 98.0MHz | L2 (X05-) | 0V | (a) |
| 2 | YCO | (A) 98.0MHz 0 dev 60dBu (ANT input) | Connect a frequency counter to TP5 and TP6 (GND). (X05-) | AUTO 98.0MHz | VR2 (X05-) | 19.00kHz | (b) |
| 3 | DISTORTION (STEREO) | (C) 98.0MHz 1kHz, ±68.25kHz dev Pilot: ±7.5kHz dev (K.P.M.V.X type) 1kHz, ±40kHz dev Pilot: ±6kHz dev (E.T.L.M.Y type) 60dBu (ANT input) | (B) | MONO 98.0MHz | IFT (W02-) | Minimum distortion | |
| 4 | SEPARATION (E.T.L type only) | (C) 98.0MHz 1kHz, ±40kHz dev Pilot: ±6kHz dev Selector: L or R 60dBu (ANT input) | (B) | AUTO 98.0MHz | VR4 (X05-) | Minimum crosstalk | |
| 5 | TUNING LEVEL | (A) 98.0MHz 1kHz, ±75kHz dev (K.P.M.V.X type) 1kHz, ±45kHz dev (E.T.L.M.Y type) 14dBu (ANT input) 750 18dBu (ANT input) 3000 | (B) | AUTO or MONO 98.0MHz | VR1 (X05-) | Adjust VR1 and stop at the point where ED201 (TUNED) goes on. | |
| AM (MW) SECTION | | SELECTOR: AM (MW) | | | | | |
| (1) | TUNING LEVEL | (D) 1008kHz 400Hz, 30% mod 26dBu (ANT input) | (B) | 1008kHz | VR3 (X05-) | Adjust VR3 and stop at the point where ED201 (TUNED) goes on. | |



ADJUSTMENT

Timer accuracy improvement method



The timer accuracy is within ±40 seconds for one month as a standard. For improved timer accuracy, perform the following procedure:

- (1) If the timer accuracy is without the standard, replace X201 (L77-1176-05) near the microprocessor IC on a printed board (X05-).
- (2) Even if within the standard, for further improved accuracy, change the constant of C202 in the crystal oscillation circuit of microprocessor IC201 and add a trimmer.

Adjustment method (Use a high-impedance buffer to avoid frequency deviation.)

Connect a high-accuracy frequency counter to pin 74 by way of the FET probe shown above, and adjust the frequency fully up to the first digit of the X201 reference frequency 4,194,304 Hz. (Connect the negative (-) side of the frequency counter to the GND side of C202.)

Note (a) As regards the positive (+) side of the frequency counter, arrange as short a distance as possible between pin 74 of IC201 and 1P of the input stage of the FET probe.

Note (b) Perform the trimmer adjustment after energization of around 10 minutes at normal temperature.

(3) Monthly error calculation method

For example, when the result of measurement at pin 74 by the frequency counter is $f_x = 4,194,275$ Hz... (Reference frequency $f_0 = 4,194,304$ [Hz])

$$\text{Monthly error [sec]} = \frac{f_x - f_0}{f_0} \times \text{the number of seconds}$$

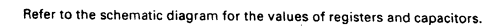
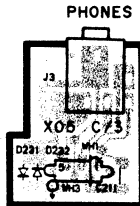
$$\text{taken for one month} = \frac{4,194,275 - 4,194,304}{4,194,304}$$

$$\times (60 \times 60 \times 24 \times 30)$$

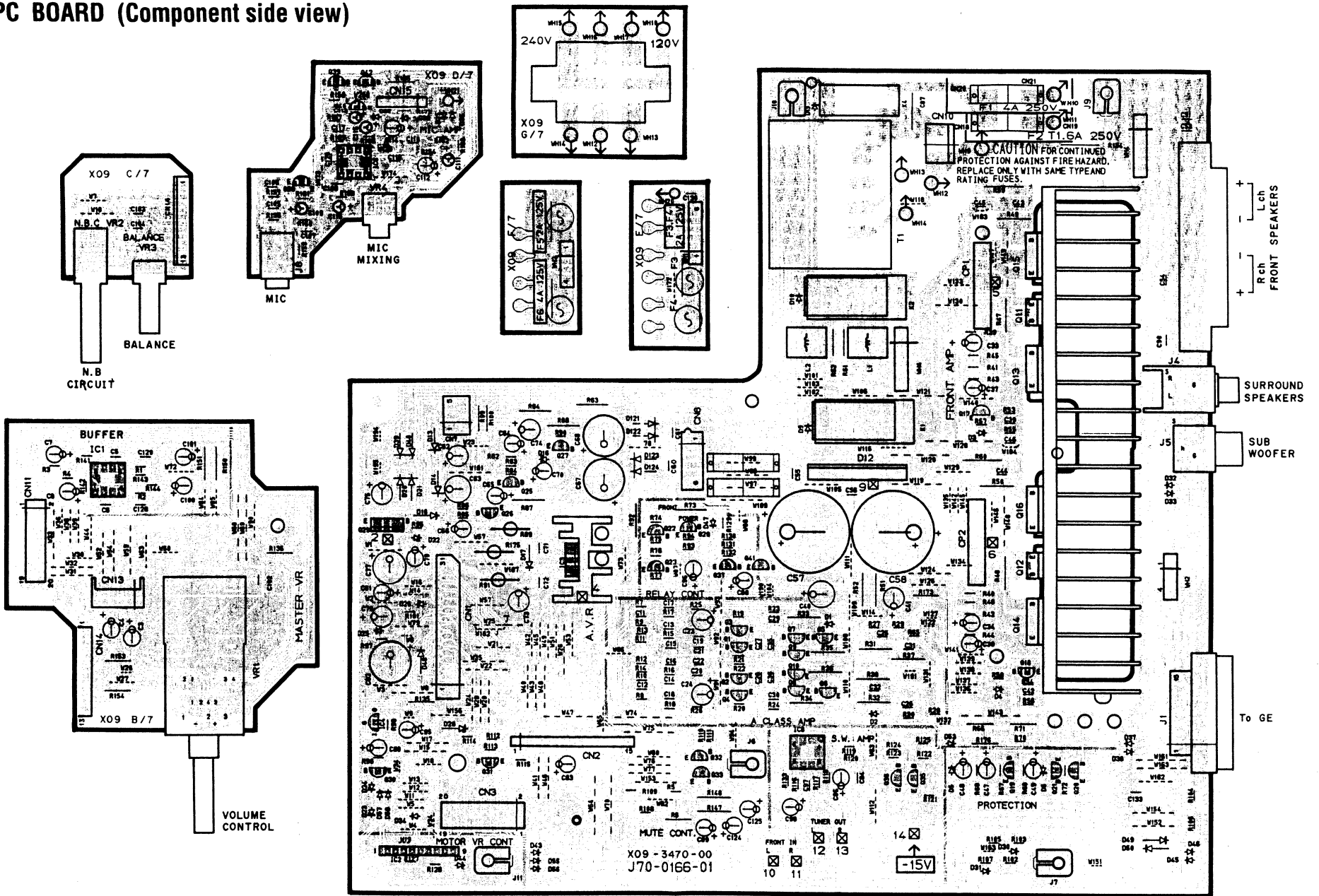
$$= -17.9 [\text{sec}]$$

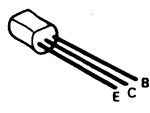
* A minus value as the monthly error means a loss.

6

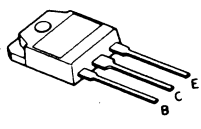


PC BOARD (Component side view)

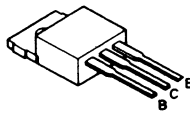




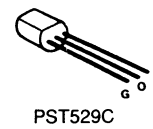
2SA1123
2SA954
2SA992
2SB764
2SC1845
2SC1923
2SC2878
2SD1302



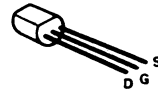
2SB1531
2SD2340



2SD1266



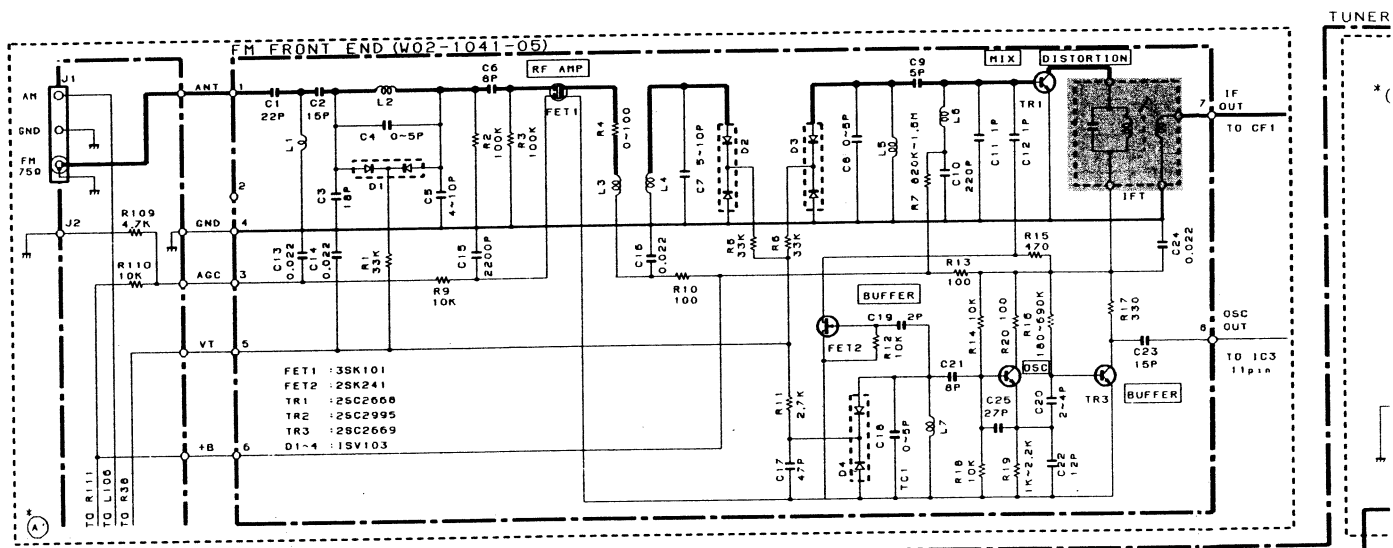
PST529C



2SK163
2SK364



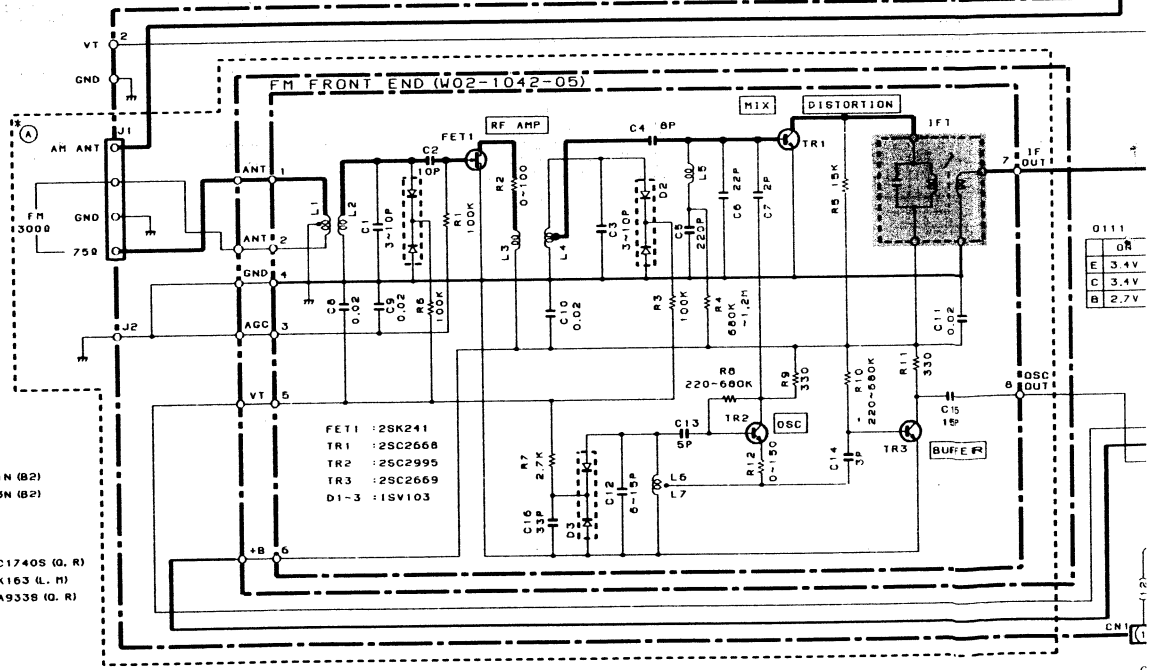
DTC124J
2SA933J
2SC174J



| PLL IC: LM7001 (X05: IC3) | | | | |
|---------------------------|------|------|------|--|
| PLL PORT | 7pin | 8pin | 9pin | |
| BAND | B1 | B2 | B3 | |
| FM | H | H | L | |
| AM | H | L | H | |
| LM | L | H | H | |

- IC1 : LA1265
IC2 : AN7470
IC3 : LM7001
- D1, 2, 4, 5 : 1S5133 or H55104
111-116 :
D3 : R05.1ES (B2) or HZ55.1N (B2)
D120 : RD3.3ES (B2) or HZ53.3N (B2)
- Q1 : 2SC1923 (R, O)
Q2 : 2SC1045 (F, E)
Q3, 4, 105-108 : 2SC3311A (O, R) or 2SC1740S (O, R)
Q5 : 2SK364 (GR, BL) or 2SK163 (L, M)
Q102-104, 111 : 2SA1309A (O, R) or 2SA933B (O, R)
Q105, 110 : 2SD1302 (S, T)

— SIGNAL LINE
— GND LINE
— (+B) LINE



| Q111 | |
|------|------|
| E | 3.4V |
| C | 3.4V |
| B | 2.7V |

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DTC124ES
2SA933S
2SC1740S

UN4212
2SA1309A
2SC3311A

NJM4565D-D

AN7470

TA8409S

TA7815HF
UPC7815HF

BA17815T

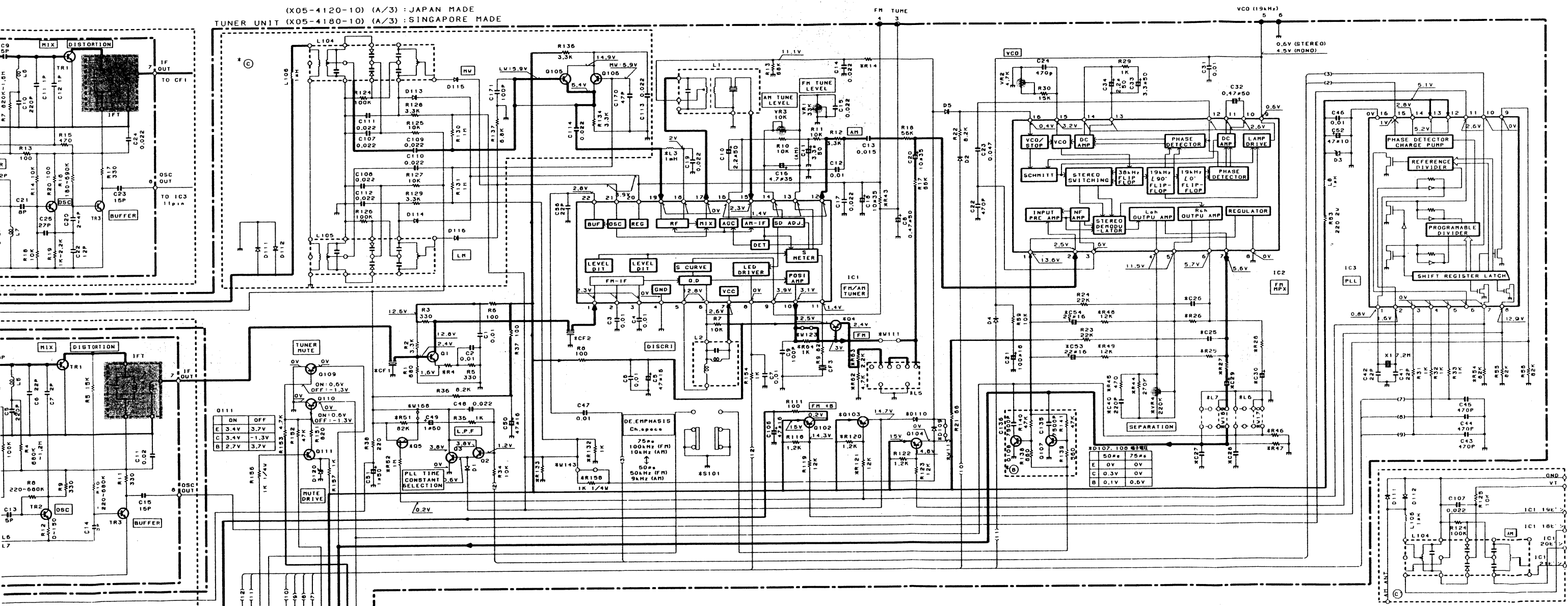
LA1265

2SC4137

LM7001

RC4565D-D

(X05-4120-10) (A/3) : JAPAN MADE
TUNER UNIT (X05-4180-10) (A/3) : SINGAPORE MADE

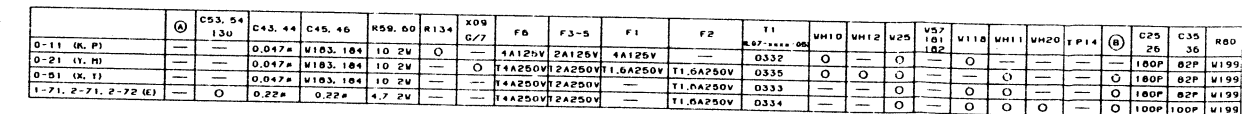
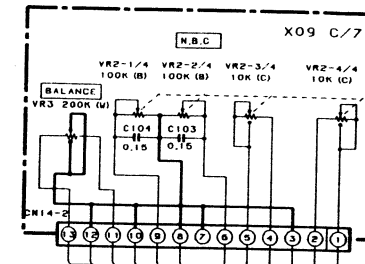


| JAPAN MADE | SINGAPORE MADE | Ref No | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | BB | BC | BD | BE | BF | BG | BH | BI | BJ | BK | BL | BM | BN | BO | BP | BQ | BR | BS | BT | BU | BV | BW | BX | BY | BZ | CA | CB | CC | CD | CE | CF | CG | CH | CI | CJ | CK | CL | CM | CN | CO | CP | CQ | CR | CS | CT | CU | CV | CW | CX | CY | CZ | DA | DB | DC | DD | DE | DF | DG | DH | DI | DJ | DK | DL | DM | DN | DO | DP | DQ | DR | DS | DT | DU | DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | EH | EI | EJ | EK | EL | EM | EN | EO | EP | EQ | ER | ES | ET | EU | EV | EW | EX | EY | EZ | FA | FB | FC | FD | FE | FF | FG | FH | FI | FJ | FK | FL | FM | FN | FO | FP | FQ | FR | FS | FT | FU | FV | FW | FX | FY | FZ | GA | GB | GC | GD | GE | GF | GG | GH | GI | GJ | GK | GL | GM | GN | GO | GP | GQ | GR | GS | GT | GU | GV | GW | GX | GY | GZ | HA | HB | HC | HD | HE | HF | HG | HH | HI | HJ | HK | HL | HM | HN | HO | HP | HQ | HR | HS | HT | HU | HV | HW | HX | HY | HZ | IA | IB | IC | ID | IE | IF | IG | IH | II | IJ | IK | IL | IM | IN | IO | IP | IQ | IR | IS | IT | IU | IV | IW | IX | IY | IZ | JA | JB | JC | JD | JE | JF | JG | JH | JI | IJ | JK | KL | KM | KN | KO | KP | KQ | KR | KS | KT | KU | KV | KW | KX | KY | KZ | LA | LB | LC | LD | LE | LF | LG | LH | LI | LJ | LK | LL | LM | LN | LO | LP | LQ | LR | LS | LT | LU | LV | LW | LX | LY | LZ | MA | MB | MC | MD | ME | MF | MG | MH | MI | MJ | MK | ML | MM | MN | MO | MP | MQ | MR | MS | MT | MU | MV | MW | MX | MY | MZ | NA | NB | NC | ND | NE | NF | NG | NH | NI | NJ | NK | NL | NM | NN | NO | NP | NQ | NR | NS | NT | NU | NV | NW | NX | NY | NZ | OA | OB | OC | OD | OE | OF | OG | OH | OI | OJ | OK | OL | OM | ON | OO | OP | OQ | OR | OS | OT | OU | OV | OW | OX | OY | OZ | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK | PL | PM | PN | PO | PP | PQ | PR | PS | PT | PU | PV | PW | PX | PY | PZ | QA | QB | QC | QD | QE | QF | QG | QH | QI | QJ | QK | QL | QM | QN | QO | QP | QQ | QR | QS | QT | QU | QV | QW | QX | QY | QZ | RA | RB | RC | RD | RE | RF | RG | RH | RI | RJ | RK | RL | RM | RN | RO | RP | RQ | RR | RS | RT | RU | RV | RW | RX | RY | RZ | SA | SB | SC | SD | SE | SF | SG | SH | SI | SJ | SK | SL | SM | SN | SO | SP | SQ | SR | SS | ST | SU | SV | SW | SX | SY | SZ | TA | TB | TC | TD | TE | TF | TG | TH | TI | TJ | TK | TL | TM | TN | TO | TP | TQ | TR | TS | TT | TU | TV | TW | TX | TY | TZ | UA | UB | UC | UD | UE | UF | UG | UH | UI | UJ | UK | UL | UM | UN | UO | UP | UQ | UR | US | UT | UU | UV | UW | UX | UY | UZ | VA | VB | VC | VD | VE | VF | VG | VH | VI | VJ | VK | VL | VM | VN | VO | VP | VQ | VR | VS | VT | VU | VV | VW | VX | VY | VZ | WA | WB | WC | WD | WE | WF | WG | WH | WI | WJ | WK | WL | WM | WN | WO | WP | WQ | WR | WS | WT | WU | WV | WW | WX | WY | WZ | XA | XB | XC | XD | XE | XF | XG | XH | XI | XJ | XK | XL | XM | XN | XO | XP | XQ | XR | XS | XT | XU | XV | XW | XX | XY | XZ | YA | YB | YC | YD | YE | YF | YG | YH | YI | YJ | YK | YL | YM | YN | YO | YP | YQ | YR | YS | YT | YU | YV | YW | YX | YZ | ZA | ZB | ZC | ZD | ZE | ZF | ZG | ZH | ZI | ZJ | ZK | ZL | ZM | ZN | ZO | ZP | ZQ | ZR | ZS | ZT | ZU | ZV | ZW | ZX | ZY | ZZ |
|---------------|-------------------|--------|---------|---------|-------------|---|---|---|---|----|------|-----|------|-----|---|---|-----|-----|-----|-----|----|---|-----|-----|---|---|------|----------|----|----|------|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | X05-412 | X05-418 | 0-10 (N, P) | O | — | — | O | 56 | 4.7k | 56k | 3.6k | 15k | O | — | 39k | 166 | 123 | 220 | 1k | — | 170 | 169 | — | — | 1113 | L72-0531 | — | X | 150P | 0.022 | 1.50 | — | O | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

A-522/52
KENWOOD

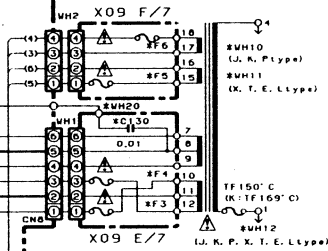
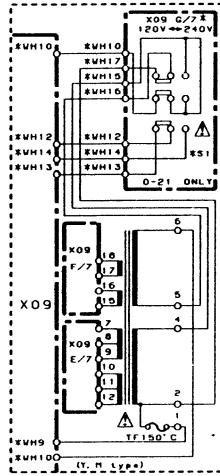
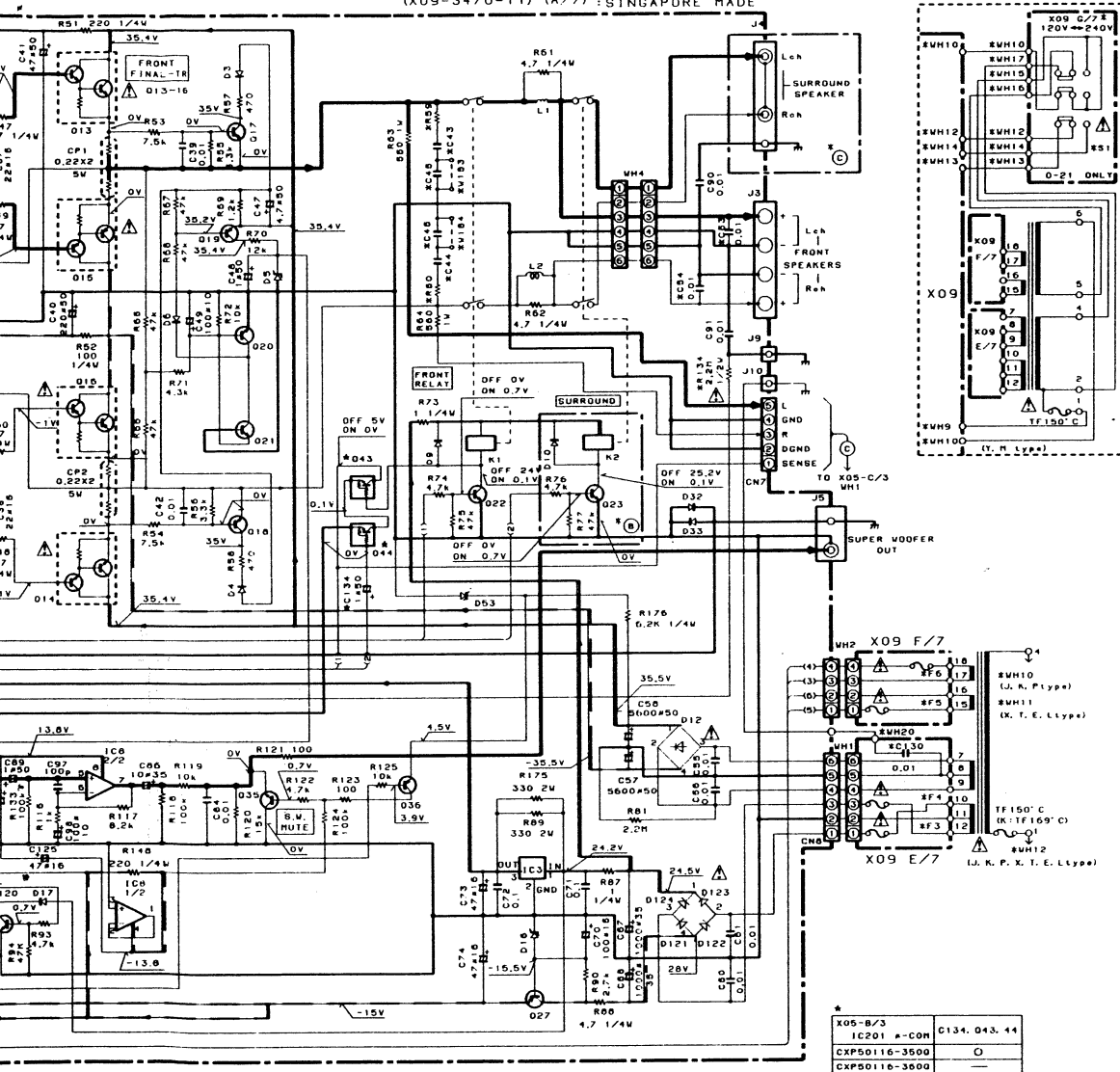
Y05-2570-11



DC voltages are as measured with a digital voltmeter with no significant error, slightly due to variations in measurements or/and units.

AUDIO UNIT

(X09-3480-11) (A/7) : JAPAN MADE
(X09-3470-11) (A/7) : SINGAPORE MADE



| | | |
|---------------|-------------|---------------|
| X05-B/3 | IC201 A-COM | G134, 043, 44 |
| CXP50116-3500 | O | |
| CXP50116-3600 | | |

| T1 | WH10 | WH12 | W25 | W57 | W116 | WH11 | WH20 | TP14 | (A) | C25 | C35 | R80 | (C) |
|------------|------|------|-----|------------|------|------|------|------|-----|------|------|------|-----|
| 07-0000-08 | | | | 181 182 | | | | | | 26 | 36 | | |
| 0332 | O | — | O | | O | — | — | — | — | 100P | 82P | W199 | — |
| 0335 | O | O | O | | — | O | — | — | O | 100P | 82P | W199 | O |
| 0333 | — | — | O | | O | O | — | — | O | 100P | 82P | W199 | O |
| 0334 | — | — | O | | O | O | O | — | O | 100P | 100P | W199 | O |

— SIGNAL LINE
— GND LINE
— (F) LINE
— (B) LINE

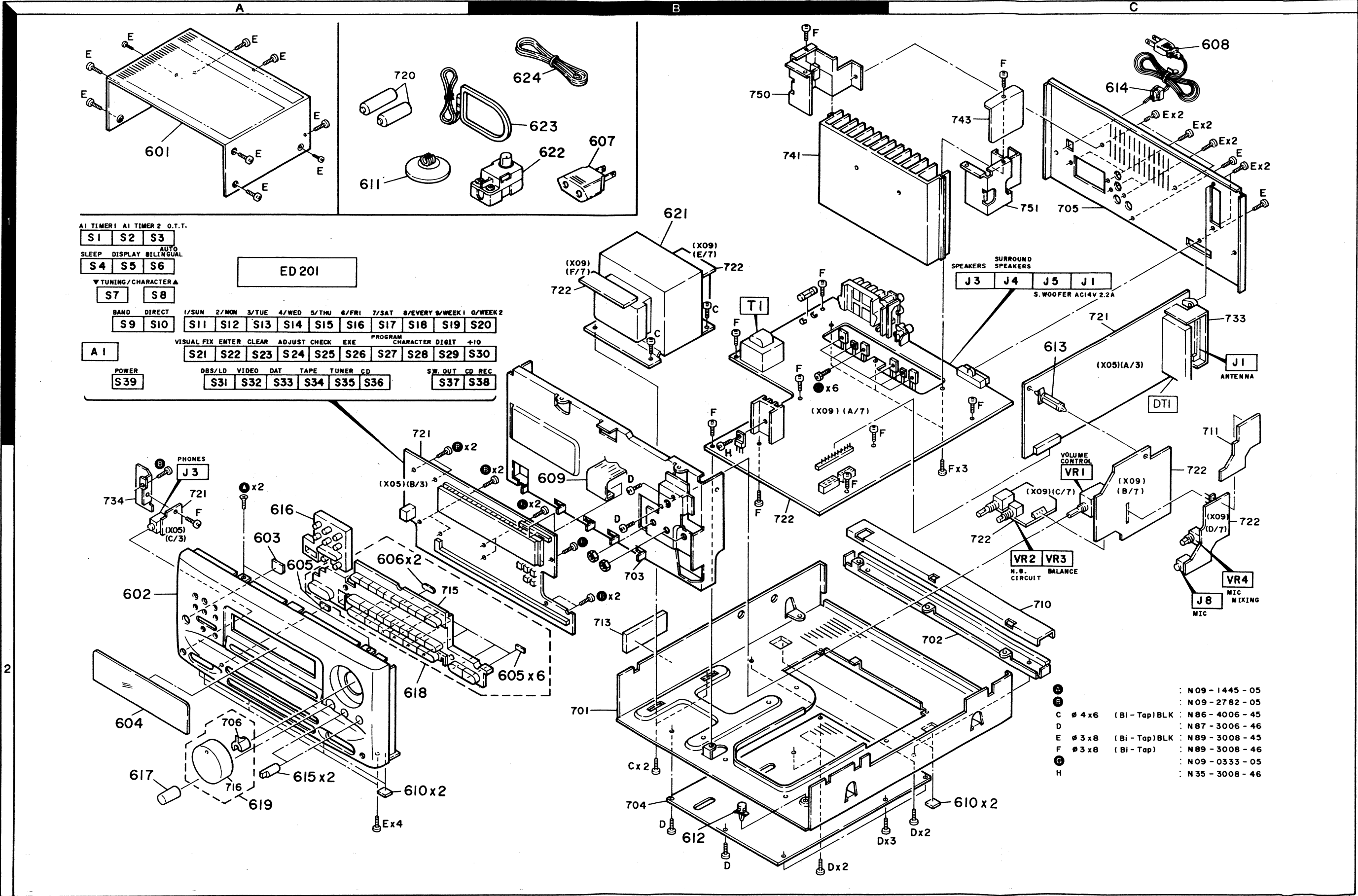
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Y05-2570-11

A-522/522
KENWOOD

A-522/522L A-522/522L

EXPLODED VIEW



* New Parts
Parts without Parts No. are not supplied.
Les pièces non mentionnées dans le Parts No. ne sont pas fournies.
Teil ohne Parts No. werden nicht geliefert.

No.1

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|--------------------|---------|-----------|-------------|-------------------------------|-------------|---------|
| 参照番号 | 位置 | 新部品 | 部品番号 | 部品名 / 規格 | 仕向地 | 備考 |
| A-522 (Japan made) | | | | | | |
| 601 | 1A | * | A01-1949-01 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0121-01 | PANEL | | |
| 603 | 2A | * | B03-2728-04 | DRESSING PLATE | | |
| 604 | 2A | * | B10-1855-03 | FRONT GLASS | | |
| 605 | 2A, 2B | * | B12-0160-04 | INDICATOR | | |
| 606 | 2A | * | B12-0161-04 | INDICATOR | | |
| - | - | - | B46-0092-13 | WARRANTY CARD | | |
| - | - | - | B46-0094-03 | WARRANTY CARD | | |
| - | - | - | B46-0095-03 | WARRANTY CARD | | |
| - | - | - | B46-0096-23 | WARRANTY CARD | | |
| - | - | - | B46-0121-03 | WARRANTY CARD | | |
| - | - | - | B58-0513-04 | CAUTION CARD (PRESET220-240) | | |
| - | - | - | B60-0671-00 | INSTRUCTION MANUAL(ENGLISH) | | |
| - | - | - | B60-0672-00 | INSTRUCTION MANUAL(FRENCH) | | |
| - | - | - | B60-0676-00 | INSTRUCTION MANUAL(SPANISH) | | |
| - | - | - | B60-0677-00 | INSTRUCTION MANUAL(CHINESE) | | |
| 607 | 1B | * | E03-0115-05 | AC PLUG ADAPTER | | |
| 608 | 1C | * | E30-2592-15 | AC POWER CORD | | |
| 608 | 1C | * | E30-2594-15 | AC POWER CORD | | |
| 608 | 1C | * | E30-2595-05 | AC POWER CORD | | |
| 608 | 1C | * | E30-2650-05 | AC POWER CORD | | |
| 609 | 2B | * | E31-4599-15 | WIRING HARNESS | | |
| 610 | 2A, 2C | * | G11-2052-14 | CUSHION | | |
| - | - | - | H10-5151-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H10-5152-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H11-0042-04 | POLYSTYRENE FOAMED BOARD | | |
| - | - | - | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | - | - | H25-0397-04 | PROTECTION BAG | | |
| - | - | - | H50-0189-04 | ITEM CARTON CASE | | |
| - | - | - | H50-0190-04 | ITEM CARTON CASE | | |
| 611 | 1A | * | J19-2815-04 | ANTENNA HOLDER | | |
| 612 | 2B | * | J19-3300-05 | UNIT HOLDER | | |
| 613 | 1C | * | J19-3331-05 | UNIT HOLDER | | |
| 614 | 1C | * | J42-0083-05 | POWER CORD BUSHING | | |
| - | - | - | J61-0307-05 | WIRE BAND | | |
| 615 | 2A | * | K29-3960-04 | KNB(BALANCE, MIC MIXING) | | |
| 616 | 2A | * | K29-4173-02 | KNB(AI TIMER, 2 etc.) | | |
| 617 | 2A | * | K29-4175-04 | KNB(N.B. CIRCUIT) | | |
| 618 | 2A | * | K29-4176-12 | KNB ASSY(INPUT SELECTOR) | | |
| 619 | 2A | * | K29-4178-04 | KNB ASSY(VOLUME CONTROL) | | |
| 621 | 1B | * | L07-0326-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0327-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0328-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0329-05 | POWER TRANSFORMER | | |
| - | - | - | N29-0067-05 | PUSH RIVET (3.5X4.5) | | |
| - | - | - | N09-1445-05 | SET SCREW (M3X8) | | |
| - | - | - | N09-2782-05 | TAPTITE SCREW (2.6X8) | | |
| - | - | - | N86-4006-45 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N99-0174-05 | LOOP ANTENNA | | |
| - | - | - | N99-0175-05 | T TYPE ANTENNA | | |

L:Scandinavia K:USA P:Canada
Y:Y(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components

* New Parts
Parts without Parts No. are not supplied.
Les pièces non mentionnées dans le Parts No. ne sont pas fournies.
Teil ohne Parts No. werden nicht geliefert.

No.2

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|------------------------|---------|-----------|-------------|-------------------------------|-------------|---------|
| 参照番号 | 位置 | 新部品 | 部品番号 | 部品名 / 規格 | 仕向地 | 備考 |
| F | 1B | * | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| 623 | 1B | * | T90-0173-05 | LOOP ANTENNA | | |
| 624 | 1B | * | T90-0176-05 | T TYPE ANTENNA | | |
| A-522 (Singapore made) | | | | | | |
| 601 | 1A | * | A01-1978-01 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0121-01 | PANEL | | |
| 603 | 2A | * | B03-2728-04 | DRESSING PLATE | | |
| 604 | 2A | * | B10-1855-03 | FRONT GLASS | | |
| 605 | 2A, 2B | * | B12-0160-04 | INDICATOR | | |
| 606 | 2A | * | B12-0161-04 | INDICATOR | | |
| - | - | - | B46-0092-13 | WARRANTY CARD | | |
| - | - | - | B46-0094-03 | WARRANTY CARD | | |
| - | - | - | B46-0095-03 | WARRANTY CARD | | |
| - | - | - | B46-0096-23 | WARRANTY CARD | | |
| - | - | - | B46-0121-03 | WARRANTY CARD | | |
| - | - | - | B58-0513-04 | CAUTION CARD (PRESET220-240) | | |
| - | - | - | B60-0671-00 | INSTRUCTION MANUAL(ENGLISH) | | |
| - | - | - | B60-0672-00 | INSTRUCTION MANUAL(FRENCH) | | |
| - | - | - | B60-0676-00 | INSTRUCTION MANUAL(SPANISH) | | |
| - | - | - | B60-0677-00 | INSTRUCTION MANUAL(CHINESE) | | |
| 607 | 1B | * | E03-0115-05 | AC PLUG ADAPTER | | |
| 608 | 1C | * | E30-2592-15 | AC POWER CORD | | |
| 608 | 1C | * | E30-2594-15 | AC POWER CORD | | |
| 608 | 1C | * | E30-2595-05 | AC POWER CORD | | |
| 608 | 1C | * | E30-2650-05 | AC POWER CORD | | |
| 609 | 2B | * | E31-4599-15 | WIRING HARNESS | | |
| 610 | 2A, 2C | * | G11-2052-14 | CUSHION | | |
| - | - | - | H10-5188-12 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H10-5189-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H10-5212-12 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H10-5213-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | - | - | H25-0397-04 | PROTECTION BAG | | |
| - | - | - | H50-0193-04 | ITEM CARTON CASE | | |
| - | - | - | H50-0194-04 | ITEM CARTON CASE | | |
| 611 | 1A | * | J19-2815-04 | ANTENNA HOLDER | | |
| 612 | 2B | * | J19-3300-05 | UNIT HOLDER | | |
| 613 | 1C | * | J19-3331-05 | UNIT HOLDER | | |
| 614 | 1C | * | J42-0083-05 | POWER CORD BUSHING | | |
| - | - | - | J61-0307-05 | WIRE BAND | | |
| 615 | 2A | * | K29-3960-04 | KNB(BALANCE, MIC MIXING) | | |
| 616 | 2A | * | K29-4173-02 | KNB(AI TIMER, 2 etc.) | | |
| 617 | 2A | * | K29-4175-04 | KNB(N.B. CIRCUIT) | | |
| 618 | 2A | * | K29-4176-12 | KNB ASSY(INPUT SELECTOR) | | |
| 619 | 2A | * | K29-4178-04 | KNB ASSY(VOLUME CONTROL) | | |
| 621 | 1B | * | L07-0326-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0327-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0328-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0329-05 | POWER TRANSFORMER | | |
| - | - | - | N29-0067-05 | PUSH RIVET (3.5X4.5) | | |
| - | - | - | N09-1445-05 | SET SCREW (M3X8) | | |
| - | - | - | N09-2782-05 | TAPTITE SCREW (2.6X8) | | |
| - | - | - | N86-4006-45 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N99-0174-05 | LOOP ANTENNA | | |
| - | - | - | N99-0175-05 | T TYPE ANTENNA | | |

L:Scandinavia K:USA P:Canada
Y:Y(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components

PARTS LIST

A-522/522L

* New Parts
Parts without Parts No. are not supplied.
Les pièces non mentionnées dans le Parts No. ne sont pas fournies.
Teil ohne Parts No. werden nicht geliefert.

No.3

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---------------------|---------|-----------|-------------|-------------------------------|-------------|---------|
| 参照番号 | 位置 | 新部品 | 部品番号 | 部品名 / 規格 | 仕向地 | 備考 |
| B | | | N09-2782-05 | TAPTITE SCREW (2.6X8) | | |
| C | | | N86-4006-45 | BRAZIER HEAD TAPTITE SCREW | | |
| D | | | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| E | | | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| F | | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| 623 | 1B | * | T90-0174-05 | LOOP ANTENNA | | |
| 624 | 1B | * | T90-0175-05 | T TYPE ANTENNA | | |
| A-522L (Japan made) | | | | | | |
| 601 | 1A | * | A01-1949-01 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0122-01 | PANEL | | |
| 603 | 2A | * | B03-2728-04 | DRESSING PLATE | | |
| 604 | 2A | * | B10-1855-03 | FRONT GLASS | | |
| 605 | 2A, 2B | * | B12-0160-04 | INDICATOR | | |
| 606 | 2A | * | B12-0161-04 | INDICATOR | | |
| - | - | - | B46-0122-13 | WARRANTY CARD | | |
| - | - | - | B46-0143-13 | WARRANTY CARD | | |
| - | - | - | B58-0923-14 | CAUTION CARD | | |
| - | - | - | B60-0671-00 | INSTRUCTION MANUAL(ENGLISH) | | |
| - | - | - | B60-0672-00 | INSTRUCTION MANUAL(FRENCH) | | |
| - | - | - | B60-0673-00 | INSTRUCTION MANUAL(GERMAN) | | |
| - | - | - | B60-0674-00 | INSTRUCTION MANUAL(DUTCH) | | |
| - | - | - | B60-0675-00 | INSTRUCTION MANUAL(ITALIAN) | | |
| 608 | 1C | * | E30-2592-15 | AC POWER CORD | | |
| 608 | 1C | * | E30-2593-15 | AC POWER CORD | | |
| 609 | 2B | * | E31-4599-15 | WIRING HARNESS | | |
| 610 | 2A, 2C | * | G11-2052-14 | CUSHION | | |
| - | - | - | H10-5151-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H10-5152-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | - | - | H11-0042-04 | POLYSTYRENE FOAMED BOARD | | |
| - | - | - | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | - | - | H25-0397-04 | PROTECTION BAG | | |
| - | - | - | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | | |
| - | - | - | H25-0659-04 | PROTECTION BAG (0397 PRINTED) | | |
| - | - | - | H50-0191-04 | ITEM CARTON CASE | | |
| 611 | 1A | * | J19-2815-04 | ANTENNA HOLDER | | |
| 612 | 2B | * | J19-3300-05 | UNIT HOLDER | | |
| 613 | 1C | * | J19-3331-05 | UNIT HOLDER | | |
| 614 | 1C | * | J42-0083-05 | POWER CORD BUSHING | | |
| - | - | - | J61-0307-05 | WIRE BAND | | |
| 615 | 2A | * | K29-3960-04 | KNB(BALANCE, MIC MIXING) | | |
| 616 | 2A | * | K29-4173-02 | KNB(AI TIMER, 2 etc.) | | |
| 617 | 2A | * | K29-4175-04 | KNB(N.B. CIRCUIT) | | |
| 618 | 2A | * | K29-4176-12 | KNB ASSY(INPUT SELECTOR) | | |
| 619 | 2A | * | K29-4178-04 | KNB ASSY(VOLUME CONTROL) | | |
| 621 | 1B | * | L07-0329-05 | POWER TRANSFORMER | | |
| 621 | 1B | * | L07-0330-05 | POWER TRANSFORMER | | |
| - | - | - | N29-0067-05 | PUSH RIVET (3.5X4.5) | | |
| - | - | - | N09-1445-05 | SET SCREW (M3X8) | | |
| - | - | - | N09-2782-05 | TAPTITE SCREW (2.6X8) | | |
| - | - | - | N86-4006-45 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| - | - | - | N99-0174-05 | LOOP ANTENNA | | |
| - | - | - | N99-0175-05 | T TYPE ANTENNA | | |

L:Scandinavia K:USA P:Canada
Y:Y(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas

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No.4

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|------------------------------------|---------|-----------|-------------|-------------------------------|-------------|---------|
| 参照番号 | 位置 | 新部品 | 部品番号 | 部品名 / 規格 | 仕向地 | 備考 |
| E | | | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| F | | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| 622 | 1B | * | T90-0136-05 | ANTENNA ADAPTOR | | |
| 623 | 1B | * | T90-0173-05 | LOOP ANTENNA | | |
| 624 | 1B | * | T90-0176-05 | T TYPE ANTENNA | | |
| A-522L (Singapore and France made) | | | | | | |
| 601 | 1A | * | A01-1978-01 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0122-01 | PANEL | | |
| 603 | 2A | * | B03-2728-04 | DRESSING PLATE | | |
| 604 | 2A | * | B10-1855-03 | FRONT GLASS | | |
| 605 | 2A, 2B | * | B12-0160-04 | INDICATOR | | |
| 606 | 2A | * | B12-0161-04 | INDICATOR | | |
| - | - | - | B46-0122-13 | WARRANTY CARD | | EL |
| - | - | - | B46-0143-13 | WARRANTY CARD | | T |
| - | - | - | B58-0923-14 | CAUTION CARD | | |
| - | - | * | B60-0671-00 | INSTRUCTION MANUAL(ENGLISH) | | TE |
| - | - | * | B60-0672-00 | INSTRUCTION MANUAL(FRENCH) | | E |
| - | - | * | B60-0673-00 | INSTRUCTION MANUAL(GERMAN) | | E |
| - | - | - | B60-0674-00 | INSTRUCTION MANUAL(DUTCH) | | |
| - | - | * | B60-0675-00 | INSTRUCTION MANUAL(ITALIAN) | | E |
| - | - | * | B60-0682-00 | INSTRUCTION MANUAL(ENGLISH) | | L |
| - | - | * | B60-0683-00 | INSTRUCTION MANUAL(FRENCH) | | L |
| - | - | * | B60-0684-00 | INSTRUCTION MANUAL(GERMAN) | | L |
| - | - | - | B60-0685-00 | INSTRUCTION MANUAL(DUTCH) | | L |
| - | - | * | B60-0686-00 | INSTRUCTION MANUAL(ITALIAN) | | L |
| 608 | 1C | * | E30-2592-15 | AC POWER CORD | | EL |
| 608 | 1C | * | E30-2593-15 | AC POWER CORD | | T |
| 609 | 2B | * | E31-4599-15 | WIRING HARNESS | | |
| 610 | 2A, 2C | * | G11-2052-14 | CUSHION | | |
| - | - | - | H10-5212-12 | POLYSTYRENE FOAMED FIXTURE | | TEL |
| - | - | - | H10-5213-02 | POLYSTYRENE FOAMED FIXTURE | | TEL |
| - | - | - | H10-5241-02 | POLYSTYRENE FOAMED FIXTURE | | TEL |
| - | - | - | H10-5242-02 | POLYSTYRENE FOAMED FIXTURE | | TEL |
| - | - | - | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | E |
| - | - | - | H25-0397-04 | PROTECTION BAG | | EL |
| - | - | * | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | | T |
| - | - | * | H25-0659-04 | PROTECTION BAG (0397 PRINTED) | | T |
| - | - | * | H50-0192-04 | ITEM CARTON CASE | | E |
| - | - | * | H50-0195-04 | ITEM CARTON CASE | | T |
| - | - | * | H50-0196-04 | ITEM CARTON CASE | | EL |
| 611 | 1A | * | J19-2815-04 | ANTENNA HOLDER | | |
| 612 | 2B | * | J19-3300-05 | UNIT HOLDER | | |
| 613 | 1C | * | J19-3331-05 | UNIT HOLDER | | |
| 614 | 1C | * | J42-0083-05 | POWER CORD BUSHING | | |
| - | - | - | J61-0307-05 | WIRE BAND | | |
| 615 | 2A | * | K29-3960-04 | KNOB (BALANCE, MIC MIXING) | | |
| 616 | 2A | * | K29-4173-02 | KNOB (AI TIMER1,2 etc.) | | |
| 617 | 2A | * | K29-4175-04 | KNOB (N. B. CIRCUIT) | | |
| 618 | 2A | * | K29-4176-12 | KNOB ASSY (INPUT SELECTOR) | | |
| 619 | 2A | * | K29-4178-04 | KNOB ASSY (VOLUME CONTROL) | | |
| 621 | 1B | * | L07-0329-05 | POWER TRANSFORMER | | T |

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

No.5

| Ref. No. | Address | Parts No. | Description | Desti- nation | Re- marks |
|--------------------------|---------|---------------|----------------------------|------------------|--------------|
| 参照番号 | 位置 | 部品番号 | 部品名/規格 | 仕 | 向 |
| 621 | 1B | L07-0330-05 | POWER TRANSFORMER | EL | |
| - | | N29-0067-05 | PUSH RIVET (3.5X4.5) | | |
| A | | N09-1445-05 | SET SCREW (M3X8) | | |
| B | | N09-2782-05 | TAPTITE SCREW (2.6X8) | | |
| C | | N86-4006-46 | BINDING HEAD TAPTITE SCREW | | |
| D | | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| E | | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| F | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| 622 | 1B | T90-0136-05 | ANTENNA ADAPTOR | | |
| 623 | 1B | T90-0174-05 | LOOP ANTENNA | | |
| 624 | 1B | T90-0175-05 | T TYPE ANTENNA | | |
| TUNER UNIT (X05-4120-10) | | | | | |
| D201, 202 | | B30-1010-05 | LED(SLP-281F-50U) | | |
| D203 | | B30-1012-05 | LED(SLP-981C-50) | | |
| D204 | | B30-1010-05 | LED(SLP-281F-50U) | | |
| D205-211 | | B30-1012-05 | LED(SLP-981C-50) | | |
| C1 -4 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C5 | | CE04KW1C470M | ELECTRO 47UF 16VW | | |
| C6 ,7 | | CE04FW1H103Z | CERAMIC 0.010UF Z | | |
| C8 | | CE04KW1HR47M | ELECTRO 0.47UF 50VW | | |
| C9 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C10 | | CE04KW1H2R2M | ELECTRO 2.2UF 50VW | | |
| C11 | | CE04KW1H3R3M | ELECTRO 3.3UF 50VW | | |
| C12 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C13 | | CQ92FM1H153J | MYLAR 0.015UF J | | |
| C14 ,15 | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C16 | | CE04KW1V4R7M | ELECTRO 4.7UF 35VW | | |
| C17 | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C18 | | CE04KW1V100M | ELECTRO 10UF 35VW | | |
| C19 | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C20 | | CE04KW1V100M | ELECTRO 10UF 35VW | | |
| C21 | | CE04KW1C101M | ELECTRO 100UF 16VW | | |
| C22 | | CK45FB1H471K | CERAMIC 470PF K | | |
| C23 | | CF92FV1H473J | MF 0.047UF J | | |
| C24 | | CC93FCH1H471J | CERAMIC 470PF J | KPYMX | |
| C25 ,26 | | CC45FSL1H151J | CERAMIC 150PF J | | |
| C26 ,27 | | CQ92FM1H102J | MYLAR 1000PF J | TEL | |
| C27 ,28 | | CQ92FM1H123J | MYLAR 0.012UF J | YMX | |
| C27 ,28 | | CQ92FM1H223J | MYLAR 0.022UF J | KP | |
| C27 ,28 | | CQ92FM1H471J | MYLAR 4700PF J | TEL | |
| C29 ,30 | | CE04KW1H010M | ELECTRO 1.0UF 50VW | KPYMX | |
| C29 ,30 | | CE04KW1H2R2M | ELECTRO 2.2UF 50VW | TEL | |
| C31 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C32 | | CE04KW1HR47M | ELECTRO 0.47UF 50VW | | |
| C33 | | CE04KW1H3R3M | ELECTRO 3.3UF 50VW | | |
| C34 | | CE04KW1H2R2M | ELECTRO 2.2UF 50VW | | |
| C40 | | CC45FSL1H221J | CERAMIC 220PF J | TEL | |
| C41 ,42 | | CC45FCH1H223J | CERAMIC 22PF J | | |
| C43 ,45 | | CK45FB1H471K | CERAMIC 470PF K | | |
| C46 ,47 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C48 | | CQ92FM1H223J | MYLAR 0.022UF J | | |
| C49 | | CE04KW1H010M | ELECTRO 1.0UF 50VW | | |
| C50 | | CE04KW1C470M | ELECTRO 47UF 16VW | | |

L:Scandinavia K:USA P:Canada
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No.11

| Ref. No. | Address | Parts No. | Description | Desti- nation | Re- marks |
|----------|---------|---------------|----------------------------|------------------|--------------|
| 参照番号 | 位置 | 部品番号 | 部品名/規格 | 仕 | 向 |
| D20 ,21 | | 1SR139-100 | DIODE | | |
| D22 | | HZS6.2N(B2) | ZENER DIODE | | |
| D22 | | R06.2ES(B2) | ZENER DIODE | | |
| D23 | | HZS11N(B2) | ZENER DIODE | | |
| D23 | | R011ES(B2) | ZENER DIODE | | |
| D24 | | HZS16N(B2) | ZENER DIODE | | |
| D24 | | R016ES(B2) | ZENER DIODE | | |
| D25 | | HSS104 | DIODE | | |
| D25 | | 1SS133 | DIODE | | |
| D26 | | HZS6.8N(B2) | ZENER DIODE | | |
| D26 | | R06.8ES(B2) | ZENER DIODE | | |
| D28 | | HZS4.7N(B) | ZENER DIODE | | |
| D28 | | R04.7ES(B) | ZENER DIODE | | |
| D30 -38 | | HSS104 | DIODE | | |
| D30 -38 | | 1SS133 | DIODE | | |
| D39 ,40 | | S56888 | DIODE | | |
| D39 ,40 | | 1SR139-100 | DIODE | | |
| D41 -50 | | HSS104 | DIODE | | |
| D41 -50 | | 1SS133 | DIODE | | |
| D53 | | HZS4.7N(B) | ZENER DIODE | | |
| D53 | | R04.7ES(B) | ZENER DIODE | | |
| D55 -58 | | HSS104 | DIODE | | |
| D55 -58 | | 1SS133 | DIODE | | |
| D121-124 | | S56888 | DIODE | | |
| D121-124 | | 1SR139-100 | DIODE | | |
| IC1 | | NJM4565D-D | IC(OP AMP X2) | | |
| IC1 | | RC4565D-D | IC(OP AMP X2) | | |
| IC2 | | TA8409S | IC(MOTOR CONTROL) | | |
| IC3 | | BA17815T | IC(VOLTAGE REGULATOR) +15V | | |
| IC3 | | TA7815HF | IC(VOLTAGE REGULATOR) +15V | | |
| IC3 | | UPC7815HF | IC(VOLTAGE REGULATOR) +15V | | |
| IC4 | | PS1259C | IC(SYSTEM RESET) | | |
| IC6 | | NJM4565D-D | IC(OP AMP X2) | | |
| IC6 | | RC4565D-D | IC(OP AMP X2) | | |
| IC8 | | NJM4565D-D | IC(OP AMP X2) | | |
| IC8 | | RC4565D-D | IC(OP AMP X2) | | |
| Q1 -6 | | 2SA992(F,E) | TRANSISTOR | | |
| Q7 -10 | | 2SC1845(F,E) | TRANSISTOR | | |
| Q11 ,12 | | 2SC4137(V,W) | TRANSISTOR | | |
| Q13 ,14 | | 2SD2340 | TRANSISTOR | | |
| Q15 ,16 | | 2SB1531 | TRANSISTOR | | |
| Q17 ,18 | | 2SC1845(F,E) | TRANSISTOR | | |
| Q19 | | 2SA1123(R,S) | TRANSISTOR | | |
| Q20 ,21 | | 2SC1845(F,E) | TRANSISTOR | | |
| Q22 | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q22 | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q23 | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q27 | | 2SA954(L,K) | TRANSISTOR | | |
| Q28 | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q28 | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q29 | | 2SD1266(Q,P) | TRANSISTOR | | |
| Q30 | | 2SB764 | TRANSISTOR | | |
| Q31 | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q31 | | 2SA933S(Q,R) | TRANSISTOR | | |

L:Scandinavia K:USA P:Canada
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X:AFES(Europe) X:Australia M:Other Areas

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No.6

| Ref. No. | Address | Parts No. | Description | Desti- nation | Re- marks |
|-----------|---------|---------------|--------------------------------|------------------|--------------|
| 参照番号 | 位置 | 部品番号 | 部品名/規格 | 仕 | 向 |
| C51 | | CE04KW1H010M | ELECTRO 1.0UF 50VW | | |
| C52 | | CE04KW1A470M | ELECTRO 47UF 10VW | | |
| C53 ,54 | | CE04KW1C220M | ELECTRO 22UF 16VW | TEL | |
| C55 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C56 | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C106 | | CE04KW1C470M | ELECTRO 47UF 16VW | | |
| C107 | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C108 | | CK45FF1H223Z | CERAMIC 0.022UF Z | TEL | |
| C109,110 | | C91-0085-05 | CERAMIC 0.022UF N | TEL | |
| C111-113 | | CK45FF1H223Z | CERAMIC 0.022UF Z | TEL | |
| C114 | | C91-0085-05 | CERAMIC 0.022UF N | TEL | |
| C135,136 | | CQ92FM1H752J | MYLAR 7500PF J | YM | |
| C170 | | CC45FSL1H470J | CERAMIC 47PF J | TEL | |
| C201,202 | | CC45FSL1H101J | CERAMIC 100PF J | TEL | |
| | | CC45FCH1H330J | CERAMIC 33PF J | | |
| C203 | | CE04DW1A101M | ELECTRO 100UF 10VW | | |
| C204,205 | | C91-0769-05 | CERAMIC 0.01UF K | | |
| C206 | | CE04CW1V2R2M | ELECTRO 2.2UF 35VW | | |
| C209 | | CE04DW1H010M | ELECTRO 1.0UF 50VW | | |
| C210 | | C91-0769-05 | CERAMIC 0.01UF K | | |
| C211 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| J1 | 1C | E20-0321-05 | LOCK TERMINAL BOARD(ANTENNA) | TEL | |
| J1 | 1C | E20-0476-05 | LOCK TERMINAL BOARD(ANTENNA) | KPYMX | |
| J3 | 2A | E11-0200-05 | MINIATURE PHONE JACK(PHONE) | | |
| CF1 ,2 | | L72-0531-05 | CERAMIC FILTER | KPYMX | |
| CF1 ,2 | | L72-0536-05 | CERAMIC FILTER | TEL | |
| CF3 | | L72-0096-05 | CERAMIC FILTER | | |
| L1 | | L30-0480-05 | AM IFT | | |
| L2 | | L30-0439-25 | FM IFT | | |
| L3 | | L40-1021-14 | SMALL FIXED INDUCTOR(1.0mH,K) | TEL | |
| L5 | | L79-0125-05 | LC FILTER | TEL | |
| L6 ,7 | | L79-0790-05 | LC FILTER | TEL | |
| L8 | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | |
| L104 | | L39-0189-05 | COMBINATION COIL | KPYMX | |
| L104 | | L39-0195-05 | COMBINATION COIL | TEL | |
| L105 | | L39-0192-05 | COMBINATION COIL | TEL | |
| L106 | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | |
| X1 | | L77-1122-05 | CRYSTAL RESONATOR(7.2MHz) | | |
| X201 | | L77-1176-05 | CRYSTAL RESONATOR(4.194304MHz) | | |
| F | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| CP201 | | R90-0855-05 | MULTI-COMP 100KX5 J | | |
| CP202 | | R90-0878-05 | MULTIPLE RESISTOR | | |
| CP203,204 | | R90-0482-05 | MULTI-COMP 100KX4 J 1/6W | | |
| CP205 | | R90-0824-05 | MULTI-COMP 100KX4 J 1/6W | | |
| CP206 | | R90-0485-05 | MULTI-COMP 100KX4 J 1/6W | | |
| RS3 | | RS14KB30221J | FL-PROOF RS 220 J 2W | | |
| VR1 | | R12-3687-05 | TRIMMING PBT 33K(EH T-LEVEL) | | |
| VR2 | | R12-1619-05 | TRIMMING PBT 4.7K(WC6) | | |
| VR3 | | R12-3685-05 | TRIMMING PBT 10K(AH T-LEVEL) | TEL | |
| VR4 | | R12-5652-05 | TRIMMING PBT 220K(SEPARATION) | | |
| S1 -39 | 1A | S40-1064-05 | PUSH SWITCH | | |
| S101 | 1C | S31-2132-05 | SLIDE SWITCH(VOLTAGE SELECTOR) | YM | |

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No.12

| Ref. No. | Address | Parts No. | Description | Desti- nation | Re- marks |
|----------|---------|---------------|--------------------|------------------|--------------|
| 参照番号 | 位置 | 部品番号 | 部品名/規格 | 仕 | 向 |
| Q32 ,33 | | 2SC2878(B) | TRANSISTOR | | |
| Q35 | | 2SC2878(B) | TRANSISTOR | | |
| Q36 | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q36 | | 2SA933S(Q,R) | TRANSISTOR | | |
| Q37 -40 | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q37 -40 | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q41 -44 | | DT124ES | DIGITAL TRANSISTOR | | |
| Q41 -44 | | UN4212 | TRANSISTOR | | |

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PARTS LIST

A-522/522L

A-522/522L

PARTS LIST

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No.7

| Ref. No. 参照番号 | Address 位置 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|-------------------------------|------------------------|--------------------|
| D1 .2 | | HSS104 | D100E | | |
| D3 .2 | | HSS133 | D100E | | |
| D3 | | HZS3-1N(B2) | ZENER DIODE | | |
| D4 .5 | | R05.1ES(B2) | ZENER DIODE | | |
| | | HSS104 | D100E | | |
| D4 .5 | | HSS133 | D100E | | |
| D109,110 | | HSS104 | D100E | TEL | |
| D109,110 | | HSS133 | D100E | TEL | |
| D111,112 | | HSS104 | D100E | | |
| D111,112 | | HSS133 | D100E | | |
| D113-116 | | HSS104 | D100E | TEL | |
| D113-116 | | HSS133 | D100E | TEL | |
| D120 | | HZS3-3N(B2) | ZENER DIODE | | |
| D120 | | R03.3ES(B2) | ZENER DIODE | | |
| D212 | | HSS104 | D100E | KPYM | |
| D212 | | HSS133 | D100E | KPYM | |
| D212-214 | | HSS104 | D100E | X | |
| D212-214 | | HSS133 | D100E | X | |
| D212-215 | | HSS104 | D100E | TEL | |
| D212-215 | | HSS133 | D100E | TEL | |
| D214 | | HSS104 | D100E | YM | |
| D214 | | HSS133 | D100E | YM | |
| D216-227 | | HSS104 | D100E | YM | |
| D216-227 | | HSS133 | D100E | YM | |
| D217-227 | | HSS104 | D100E | KPXTL | |
| D217-227 | | HSS133 | D100E | KPXTL | |
| D231-234 | | HSS104 | D100E | | |
| D231-234 | | HSS133 | D100E | | |
| ED201 | 1A | F1P1A47R | FLUORESCENT INDICATOR TUBE | | |
| IC1 | | LA126S | IC(FM/AM TUNER) | | |
| IC2 | | AN7470 | IC(FM MPX) | | |
| IC3 | | LM7001 | IC(PLL FREQUENCY SYNTHESIZER) | | |
| IC201 | | CXP50116-360Q | IC(MICROPROCESSOR) | | |
| IC202 | | MS59371 | IC(EXPANSION IC) | | |
| Q1 | | 2SC1923(R,B) | TRANSISTOR | | |
| Q2 | | 2SC1845(F,B) | TRANSISTOR | | |
| Q3 | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q3 | | 2SC311A(Q,R) | TRANSISTOR | | |
| Q4 | | 2SC1740S(Q,R) | TRANSISTOR | TEL | |
| Q4 | | 2SC311A(Q,R) | TRANSISTOR | TEL | |
| Q5 | | 2SK163(L,M) | FET | TEL | |
| Q5 | | 2SK364(GR,BL) | FET | TEL | |
| Q102 | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q102 | | 2SA933S(Q,R) | TRANSISTOR | | |
| Q103 | | 2SA1309A(Q,R) | TRANSISTOR | TEL | |
| Q103 | | 2SA933S(Q,R) | TRANSISTOR | TEL | |
| Q104 | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q104 | | 2SA933S(Q,R) | TRANSISTOR | | |
| Q105,106 | | 2SC1740S(Q,R) | TRANSISTOR | TEL | |
| Q105,106 | | 2SC311A(Q,R) | TRANSISTOR | TEL | |
| Q107,108 | | 2SC1740S(Q,R) | TRANSISTOR | YM | |
| Q107,108 | | 2SC311A(Q,R) | TRANSISTOR | YM | |
| Q109,110 | | 2SD1302(S,T) | TRANSISTOR | | |
| Q111 | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q111 | | 2SA933S(Q,R) | TRANSISTOR | | |

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No.9

| Ref. No. 参照番号 | Address 位置 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|----------------------------------|------------------------|--------------------|
| C86 | | CE04KW1V100M | ELECTR 100F 35WV | | |
| C87 | | C91-1421-05 | FLTA 0.01UF 250AC | | |
| C88 | | CE04KW1C470M | ELECTR 47UF 16WV | | |
| C90 .91 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C95 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| C96 | | CE04KW1C330M | ELECTR 33UF 16WV | | |
| C97 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C98 | | CE04KW1A101M | ELECTR 100UF 10WV | | |
| C100,101 | | CE04KW1V100M | ELECTR 1.0UF 35WV | | |
| C102 | | CF92FV1H104J | MF 0.10UF J | | |
| C103,104 | | CF92FV1H154J | MF 0.15UF J | | |
| C105 | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C106 | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C107 | | CF92FV1H473J | MF 0.047UF J | | |
| C108 | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C109 | | CE04JW1C100M | ELECTR 100F 16WV | | |
| C110 | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C111 | | CE04JW1C100M | ELECTR 100F 16WV | | |
| C112 | | CE04JW1V100M | ELECTR 100F 35WV | | |
| C113 | | CE04JW1H010M | ELECTR 0.1UF 50WV | | |
| C114 | | CE04JW1C100M | ELECTR 100F 16WV | | |
| C115 | | CE04JW1C100M | ELECTR 100F 16WV | | |
| C117 | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C118 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C120 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C124,125 | | CE04KW1C470M | ELECTR 47UF 16WV | | |
| C126,129 | | CC45FSL1H121J | CERAMIC 120PF J | | |
| C130 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C133 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C134 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| J1 | 1C | E08-1508-05 | RECTANGULAR RECEPTACLE (RED) | | |
| J3 | 1C | E20-0459-05 | LOCK TERMINAL BOARD (F. SPEAKER) | | |
| J4 | 1C | E63-0027-05 | PHONE JACK (SURROUND SPEAKERS) | YMXTEL | |
| J5 | 1C | E63-0017-05 | PHONE JACK (SUPER WOOFER) | | |
| J8 | 2C | E11-0220-05 | MINIATURE PHONE JACK (NIC) | | |
| F1 | | F05-1623-05 | FUSE (SENK0) (250V T1.6A) | YM | |
| F1 | | F05-4028-05 | FUSE (UL) (125V 4A) | KP | |
| F2 | | F05-1623-05 | FUSE (SENK0) (250V T1.6A) | XP | |
| F3 -5 | | F53-0006-05 | FUSE (125V 2A) | YMXTEL | |
| F3 -5 | | F53-0042-05 | FUSE (SENK0) (250V T2A) | | |
| F6 | | F53-0010-05 | FUSE (125V 4A) | KP | |
| F6 | | F53-0044-05 | FUSE (SENK0) (250V T4A) | YMXTEL | |
| CN18,19 | | J13-0075-05 | FUSE CLIP | YMXTEL | |
| CN20,21 | | J13-0075-05 | FUSE CLIP | KPYM | |
| L1 .2 | | L39-0085-05 | PHASE-COMPENSATION COIL | | |
| T1 | 1B | L07-0332-05 | POWER TRANSFORMER | KP | |
| T1 | 1B | L07-0333-05 | POWER TRANSFORMER | XT | |
| T1 | 1B | L07-0334-05 | POWER TRANSFORMER | EL | |
| T1 | 1B | L07-0335-05 | POWER TRANSFORMER | YM | |
| F C | | N89-3008-46 | BINDING HEAD TAPITTE SCREW | | |
| | | N09-0333-05 | TAPPING SCREW (3X12) | | |

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No.8

| Ref. No. 参照番号 | Address 位置 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|--------------------------|---------------|-------------------|-------------------------|------------------------|--------------------|
| Q201,202 | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q201,202 | | 2SC311A(Q,R) | TRANSISTOR | | |
| Q203 | | 2SA1309A(Q,R) | TRANSISTOR | YM | |
| Q203 | | 2SA933S(Q,R) | TRANSISTOR | YM | |
| A1 | 1A | W02-1046-05 | ELECTRIC CIRCUIT MODULE | | |
| DT1 | 1C | W02-1041-05 | FM FRONT-END ASSY | TEL | |
| DT1 | 1C | W02-1042-05 | FM FRONT-END ASSY | KPYM | |
| AUDIO UNIT (XOS-3480-11) | | | | | |
| C3 .4 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| C5 .6 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C7 .8 | | CE04KW1V100M | ELECTR 100F 35WV | | |
| C11,12 | | CF92FV1H243J | MF 0.024UF J | | |
| C13,14 | | CF92FV1H104J | MF 0.10UF J | | |
| C15,16 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C17,18 | | CF92FV1H104J | MF 0.10UF J | | |
| C19,20 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C21,22 | | CK45FB1H471K | CERAMIC 470PF K | | |
| C23,24 | | C90-1851-05 | ELECTR 100UF 16WV | | |
| C25,26 | | CC45FSL1H101J | CERAMIC 100PF J | EL | |
| C25,26 | | CC45FSL1H101J | CERAMIC 100PF J | KPYMXT | |
| C27,28 | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C29,30 | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C31,32 | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C33,34 | | CE04KW1V100M | ELECTR 100F 35WV | EL | |
| C35,36 | | CE04KW1H101J | CERAMIC 100PF J | KPYMXT | |
| C35,36 | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C37,38 | | CE04KW1C220M | ELECTR 22UF 16WV | | |
| C39 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C40 | | CE04KW1H221M | ELECTR 220UF 50WV | | |
| C41 | | CE04KW1H470M | ELECTR 47UF 16WV | | |
| C42 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C43,44 | | CF92FV1H224J | MF 0.22UF J | EL | |
| C43,44 | | CF92FV1H473J | MF 0.047UF J | KPYMXT | |
| C45,46 | | CF92FV1H224J | MF 0.22UF J | EL | |
| C47 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| C48 | | CE04KW1H010M | ELECTR 1.0UF 50WV | | |
| C49 | | CE04KW1A101M | ELECTR 100UF 10WV | | |
| C53,54 | | CK45FF1H103Z | CERAMIC 0.010UF Z | EL | |
| C55,56 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C57,58 | | C90-1947-05 | ELECTR 5600UF 50WV | | |
| C60,61 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C67,68 | | CE04KW1V102R | ELECTR 1000UF 35WV | | |
| C70 | | CE04KW1C470M | ELECTR 47UF 16WV | | |
| C71,72 | | CF92FV1H104J | MF 0.10UF J | | |
| C73,74 | | CE04KW1C470M | ELECTR 47UF 16WV | | |
| C75 | | CE04KW1E101M | ELECTR 100UF 25WV | | |
| C76 | | CE04KW1V470M | ELECTR 47UF 35WV | | |
| C77 | | CE04KW1E471M | ELECTR 470UF 25WV | | |
| C79 | | CE04KW1V100M | ELECTR 100F 35WV | | |
| C80 | | CE04KW1V470M | ELECTR 47UF 35WV | | |
| C81 | | CE04KW1V100M | ELECTR 100F 35WV | | |
| C82 | | CE04KW0J222M | ELECTR 2200UF 6.3WV | | |
| C83 | | CE04KW1H2R2M | ELECTR 2.2UF 50WV | | |
| C84 | | CF92FV1H104J | MF 0.10UF J | | |

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